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09/744794

<110> INYCTE PHARMACEUTICALS, INC.; HILLMAN, Jennifer L.
 LAL, Preeti; TANG, Y. Tom
 CORLEY, Neil C.; GUEGLER, Karl J.
 BAUGHN, Mariah R.; PATTERSON, Chandra
 BANDMAN, Olga; AU-YOUNG, Janice
 GORGONE, Gina A.; YUE, Henry
 AZIMZAI, Yalda; REDDY, Roopa
 LU, Dyung Aina M.; SHIH, Leo L.

<120> PHOSPHORYLATION EFFECTORS

<130> PF-0565 USN

<140> US 09/744,794

<141> 2001-01-26

<150> US 99/17132

<151> 1999-07-28

<150> US 60/155,233

<151> 1999-01-12

<150> US 60/113,796

<151> 1998-12-22

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<151> 1998-11-19

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<151> 1998-11-03

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<212> PRT

<213> Homo sapiens

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<223> Incyte ID No: 132240

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Ile	Lys	Glu	Ser	Ser	Phe	Glu	Glu	Ser	Asn	Ile	Glu	Asp	Pro	Leu
				20					25					30
Ile	Val	Thr	Pro	Asp	Cys	Gln	Glu	Lys	Thr	Ser	Pro	Lys	Gly	Val
				35					40					45
Glu	Asn	Pro	Ala	Val	Gln	Glu	Ser	Asn	Gln	Lys	Met	Leu	Gly	Pro
				50					55					60
Pro	Leu	Glu	Val	Leu	Lys	Thr	Leu	Ala	Ser	Lys	Arg	Asn	Ala	Val
				65					70					75
Ala	Phe	Arg	Ser	Phe	Asn	Ser	His	Ile	Asn	Ala	Ser	Asn	Asn	Ser
				80					85					90
Glu	Pro	Ser	Arg	Met	Asn	Met	Thr	Ser	Leu	Asp	Ala	Met	Asp	Ile
				95					100					105
Ser	Cys	Ala	Tyr	Ser	Gly	Ser	Tyr	Pro	Met	Ala	Ile	Thr	Pro	Thr
				110					115					120
Gln	Lys	Arg	Arg	Ser	Cys	Met	Pro	His	Gln	Thr	Pro	Asn	Gln	Ile
				125					130					135
Lys	Ser	Gly	Thr	Pro	Tyr	Arg	Thr	Pro	Lys	Ser	Val	Arg	Arg	Gly
				140					145					150
Val	Ala	Pro	Val	Asp	Asp	Gly	Arg	Ile	Leu	Gly	Thr	Pro	Asp	Tyr
				155					160					165
Leu	Ala	Pro	Glu	Leu	Leu	Leu	Gly	Arg	Ala	His	Gly	Pro	Ala	Val

	170		175		180
Asp Trp Trp Ala	Leu Gly Val Cys Leu	Phe Glu Phe Leu Thr	Gly		
	185		190		195
Ile Pro Pro Phe	Asn Asp Glu Thr Pro	Gln Gln Val Phe Gln	Asn		
	200		205		210
Ile Leu Lys Arg	Asp Ile Pro Trp Pro	Glu Gly Glu Glu Lys	Leu		
	215		220		225
Ser Asp Asn Ala	Gln Ser Ala Val Glu	Ile Leu Leu Thr Ile	Asp		
	230		235		240
Asp Thr Lys Arg	Ala Gly Met Lys Glu	Leu Lys Arg His Pro	Leu		
	245		250		255
Phe Ser Asp Val	Asp Trp Glu Asn Leu	Gln His Gln Thr Met	Pro		
	260		265		270
Phe Ile Pro Gln	Pro Asp Asp Glu Thr	Asp Thr Ser Tyr Phe	Glu		
	275		280		285
Ala Arg Asn Thr	Ala Gln His Leu Thr	Val Ser Gly Phe Ser	Leu		
	290		295		300

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<220>
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Ser Pro Ser Arg Ala	Arg Gly Pro Gly Gly Ser Pro Gly Gly Met
	20 25 30
Gln Lys Arg His Ala	Arg Val Thr Val Lys Tyr Asp Arg Arg Glu
	35 40 45
Leu Gln Arg Arg Leu	Asp Val Glu Lys Trp Ile Asp Gly Arg Leu
	50 55 60
Glu Glu Leu Tyr Arg	Gly Met Glu Ala Asp Met Pro Asp Glu Ile
	65 70 75
Asn Ile Asp Glu Leu	Leu Glu Leu Glu Ser Glu Glu Glu Arg Ser
	80 85 90
Arg Lys Ile Gln Gly	Leu Leu Lys Ser Cys Gly Lys Pro Val Glu
	95 100 105
Asp Phe Ile Gln Glu	Leu Leu Ala Lys Leu Gln Gly Leu His Arg
	110 115 120
Gln Pro Gly Leu Arg	Gln Pro Ser Pro Ser His Asp Gly Ser Leu
	125 130 135
Ser Pro Leu Gln Asp	Arg Ala Arg Thr Ala His Pro
	140 145

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Met Ala His Ser Pro	Val Gln Ser Gly Leu Pro Gly Met Gln Asn
1	5 10 15
Leu Lys Ala Asp Pro	Glu Glu Leu Phe Thr Lys Leu Glu Lys Ile
	20 25 30
Gly Lys Gly Ser Phe	Gly Glu Val Phe Lys Gly Ile Asp Asn Arg
	35 40 45
Thr Gln Lys Val Val	Ala Ile Lys Ile Ile Asp Leu Glu Glu Ala

	50		55		60
Glu Asp Glu Ile Glu	Asp Ile Gln Gln Glu	Ile Thr Val Leu Ser			
	65		70		75
Gln Cys Asp Ser Pro	Tyr Val Thr Lys Tyr	Tyr Gly Ser Tyr Leu			
	80		85		90
Lys Asp Thr Lys Leu	Trp Ile Ile Met Glu	Tyr Leu Gly Gly Gly			
	95		100		105
Ser Ala Leu Asp Leu	Leu Glu Pro Gly Arg	Leu Asp Glu Thr Gln			
	110		115		120
Ile Ala Thr Ile Leu	Arg Glu Ile Leu Lys	Gly Leu Asp Tyr Leu			
	125		130		135
His Ser Glu Lys Lys	Ile His Arg Asp Ile	Lys Ala Ala Asn Val			
	140		145		150
Leu Leu Ser Glu His	Gly Glu Val Lys Leu	Ala Asp Phe Gly Val			
	155		160		165
Ala Gly Gln Leu Thr	Asp Thr Gln Ile Lys	Arg Asn Thr Phe Val			
	170		175		180
Gly Thr Pro Phe Trp	Met Ala Pro Glu Val	Ile Lys Gln Ser Ala			
	185		190		195
Tyr Asp Ser Lys Ala	Asp Ile Trp Ser Leu	Gly Ile Thr Ala Ile			
	200		205		210
Glu Leu Ala Arg Gly	Glu Pro Pro His Ser	Glu Leu His Pro Met			
	215		220		225
Lys Val Leu Phe Leu	Ile Pro Lys Asn Asn	Pro Pro Thr Leu Glu			
	230		235		240
Gly Asn Tyr Ser Lys	Pro Leu Lys Glu Phe	Val Glu Ala Cys Leu			
	245		250		255
Asn Lys Glu Pro Ser	Phe Arg Pro Thr Ala	Lys Glu Leu Leu Lys			
	260		265		270
His Lys Phe Ile Leu	Arg Asn Ala Lys Lys	Thr Ser Tyr Leu Thr			
	275		280		285
Glu Leu Ile Asp Arg	Tyr Lys Arg Trp Lys	Ala Glu Gln Ser His			
	290		295		300
Asp Asp Ser Ser Ser	Glu Asp Ser Asp Ala	Glu Thr Asp Gly Gln			
	305		310		315
Ala Ser Gly Gly Ser	Asp Ser Gly Asp Trp	Ile Phe Thr Ile Arg			
	320		325		330
Glu Lys Asp Pro Lys	Asn Leu Glu Asn Gly	Ala Leu Gln Pro Ser			
	335		340		345
Asp Leu Asp Arg Asn	Lys Met Lys Asp Ile	Pro Lys Arg Pro Phe			
	350		355		360
Ser Gln Cys Leu Ser	Thr Ile Ile Ser Pro	Leu Phe Ala Glu Leu			
	365		370		375
Lys Glu Lys Ser Gln	Ala Cys Gly Gly Asn	Leu Gly Ser Ile Glu			
	380		385		390
Glu Leu Arg Gly Ala	Ile Tyr Leu Ala Glu	Glu Ala Cys Pro Gly			
	395		400		405
Ile Ser Asp Thr Met	Val Ala Gln Leu Val	Gln Arg Leu Gln Arg			
	410		415		420
Tyr Ser Leu Ser Gly	Gly Gly Thr Ser Ser	His			
	425		430		

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<211> 218

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<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2594943

<400> 4

Met Asn Cys Arg Ser	Glu Val Leu Glu Val	Ser Val Glu Gly Arg			
1	5	10		15	
Gln Val Glu Glu Ala	Met Leu Ala Val Leu	His Thr Val Leu Leu			
	20	25		30	
His Arg Ser Thr Gly	Lys Phe His Tyr Lys	Lys Glu Gly Thr Tyr			

	35		40		45
Ser Ile Gly Thr	Val Gly Thr Gln Asp	Val Asp Cys Asp Phe	Ile		
	50		55		60
Asp Phe Thr Tyr	Val Arg Val Ser Ser	Glu Glu Leu Asp Arg	Ala		
	65		70		75
Leu Arg Lys Val	Val Gly Glu Phe Lys	Asp Ala Leu Arg Asn	Ser		
	80		85		90
Gly Gly Asp Gly	Leu Gly Gln Met Ser	Leu Glu Phe Tyr Gln	Lys		
	95		100		105
Lys Lys Ser Arg	Trp Pro Phe Ser Asp	Glu Cys Ile Pro Trp	Glu		
	110		115		120
Val Trp Thr Val	Lys Val His Val Val	Ala Leu Ala Thr Glu	Gln		
	125		130		135
Glu Arg Gln Ile	Cys Arg Glu Lys Val	Gly Glu Lys Leu Cys	Glu		
	140		145		150
Lys Ile Ile Asn	Ile Val Glu Val Met	Asn Arg His Glu Tyr	Leu		
	155		160		165
Pro Lys Met Pro	Thr Gln Ser Glu Val	Asp Asn Val Phe Asp	Thr		
	170		175		180
Gly Leu Arg Asp	Val Gln Pro Tyr Leu	Tyr Lys Ile Ser Phe	Gln		
	185		190		195
Ile Thr Asp Ala	Leu Gly Thr Ser Val	Thr Thr Thr Met Arg	Arg		
	200		205		210
Leu Ile Lys Asp	Thr Leu Ala Leu				
	215				

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<211> 474

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<223> Incyte ID No: 1513871

<400> 5

Met Ile Met Asn Lys	Met Lys Asn Phe Lys	Arg Arg Phe Ser	Leu		
1	5	10	15		
Ser Val Pro Arg Thr	Glu Thr Ile Glu Glu	Ser Leu Ala Glu	Phe		
	20	25	30		
Thr Glu Gln Phe Asn	Gln Leu His Asn Arg	Arg Asn Glu Asn	Leu		
	35	40	45		
Gln Leu Gly Pro Leu	Gly Arg Asp Pro Pro	Gln Glu Cys Ser	Thr		
	50	55	60		
Phe Ser Pro Thr Asp	Ser Gly Glu Glu Pro	Gly Gln Leu Ser	Pro		
	65	70	75		
Gly Val Gln Phe Gln	Arg Arg Gln Asn Gln	Arg Arg Phe Ser	Met		
	80	85	90		
Glu Asp Val Ser Lys	Arg Leu Ser Leu Pro	Met Asp Ile Arg	Leu		
	95	100	105		
Pro Gln Glu Phe Leu	Gln Lys Leu Gln Met	Glu Ser Pro Asp	Leu		
	110	115	120		
Pro Lys Pro Leu Ser	Arg Met Ser Arg Ala	Ser Leu Ser Asp			
	125	130	135		
Ile Gly Phe Gly Lys	Leu Glu Thr Tyr Val	Lys Leu Asp Lys	Leu		
	140	145	150		
Gly Glu Gly Thr Tyr	Ala Thr Val Phe Lys	Gly Arg Ser Lys	Leu		
	155	160	165		
Thr Glu Asn Leu Val	Ala Leu Lys Glu Ile	Arg Leu Glu His	Glu		
	170	175	180		
Glu Gly Ala Pro Cys	Thr Ala Ile Arg Glu	Val Ser Leu Leu	Lys		
	185	190	195		
Asn Leu Lys His Ala	Asn Ile Val Thr Leu	His Asp Leu Ile	His		
	200	205	210		
Thr Asp Arg Ser Leu	Thr Leu Val Phe Glu	Tyr Leu Asp Ser	Asp		
	215	220	225		
Leu Lys Gln Tyr Leu	Asp His Cys Gly Asn	Leu Met Ser Met	His		

Asn Val Lys Ile	230	Phe Met Phe Gln Leu	235	Leu Arg Gly Leu Ala Tyr	240
	245		250		255
Cys His His Arg	260	Lys Ile Leu His Arg	265	Leu Lys Pro Gln Asn	270
	275		280		285
Leu Leu Ile Asn	290	Glu Arg Gly Glu Leu	295	Lys Leu Ala Asp Phe Gly	300
	305		310		315
Leu Ala Arg Ala	320	Lys Ser Val Pro Thr	325	Lys Thr Tyr Ser Asn Glu	330
	335		340		345
Val Val Thr Leu	350	Trp Tyr Arg Pro Pro	355	Val Leu Leu Gly Ser	360
	365		370		375
Thr Glu Tyr Ser	380	Thr Pro Ile Asp Met	385	Trp Gly Val Gly Cys Ile	390
	395		400		405
His Tyr Glu Met	410	Ala Thr Gly Arg Pro	415	Leu Phe Pro Gly Ser Thr	420
	425		430		435
Val Lys Glu Glu	440	Leu His Leu Ile Phe	445	Arg Leu Leu Gly Thr Pro	450
	455		460		465
Thr Glu Glu Thr		Trp Pro Gly Val Thr		Ala Phe Ser Glu Phe Arg	
Thr Tyr Ser Phe		Pro Cys Tyr Leu Pro		Gln Pro Leu Ile Asn His	
Ala Pro Arg Leu		Asp Thr Asp Gly Ile		His Leu Leu Ser Ser Leu	
Leu Leu Tyr Glu		Ser Lys Ser Arg Met		Ser Ala Glu Ala Ala Leu	
Ser His Ser Tyr		Phe Arg Ser Leu Gly		Glu Arg Val His Gln Leu	
Glu Asp Thr Ala		Ser Ile Phe Ser Leu		Lys Glu Ile Gln Leu Gln	
Lys Asp Pro Gly		Tyr Arg Gly Leu Ala		Phe Gln Gln Pro Gly Arg	
Gly Lys Asn Arg		Arg Gln Ser Ile Phe			

<210> 6
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 <223> Incyte ID No: 156108

Met Asn Gly Glu Ala	1	Ile Cys Ser Ala Leu	10	Pro Thr Ile Pro Tyr	15
	5		10		15
His Lys Leu Ala Asp	20	Leu Arg Tyr Leu Ser	25	Arg Gly Ala Ser Gly	30
	25		25		30
Thr Val Ser Ser Ala	35	Arg His Ala Asp Trp	40	Arg Val Gln Val Ala	45
	40		40		45
Val Lys His Leu His	50	Ile His Thr Pro Leu	55	Leu Asp Ser Glu Arg	60
	55		55		60
Lys Asp Val Leu Arg	65	Glu Ala Glu Ile Leu	70	His Lys Ala Arg Phe	75
	70		70		75
Ser Tyr Ile Leu Pro	80	Ile Leu Gly Ile Cys	85	Asn Glu Pro Glu Phe	90
	85		85		90
Leu Gly Ile Val Thr	95	Glu Tyr Met Pro Asn	100	Gly Ser Leu Asn Glu	105
	100		100		105
Leu Leu His Arg Lys	110	Thr Glu Tyr Pro Asp	115	Val Ala Trp Pro Leu	120
	115		115		120
Arg Phe Arg Ile Leu	125	His Glu Ile Ala Leu	130	Gly Val Asn Tyr Leu	135
	130		130		135
His Asn Met Thr Pro	140	Pro Leu Leu His His	145	Asp Leu Lys Thr Gln	150
	145		145		150
Asn Ile Leu Leu Asp	155	Asn Glu Phe His Val	160	Lys Ile Ala Asp Phe	165
	160		160		165
Gly Leu Ser Lys Trp		Arg Met Met Ser Leu		Ser Gln Ser Arg Ser	

	170		175		180
Ser Lys Ser Ala	Pro Glu Gly Gly Thr	Ile Ile Tyr Met Pro	Pro		
	185		190		195
Glu Asn Tyr Glu	Pro Gly Gln Lys Ser	Arg Ala Ser Ile Lys	His		
	200		205		210
Asp Ile Tyr Ser	Tyr Ala Val Ile Thr	Trp Glu Val Leu Ser	Arg		
	215		220		225
Lys Gln Pro Phe	Glu Asp Val Thr Asn	Pro Leu Gln Ile Met	Tyr		
	230		235		240
Ser Val Ser Gln	Gly His Arg Pro Val	Ile Asn Glu Glu Ser	Leu		
	245		250		255
Pro Tyr Asp Ile	Pro His Arg Ala Arg	Met Ile Ser Leu Ile	Glu		
	260		265		270
Ser Gly Trp Ala	Gln Asn Pro Asp Glu	Arg Pro Ser Phe Leu	Lys		
	275		280		285
Cys Leu Ile Glu	Leu Glu Pro Val Leu	Arg Thr Phe Glu Glu	Ile		
	290		295		300
Thr Phe Leu Glu	Ala Val Ile Gln Leu	Lys Lys Thr Lys Leu	Gln		
	305		310		315
Ser Val Ser Ser	Ala Ile His Leu Cys	Asp Lys Lys Lys Met	Glu		
	320		325		330
Leu Ser Leu Asn	Ile Pro Val Asn His	Gly Pro Gln Glu Glu	Ser		
	335		340		345
Cys Gly Ser Ser	Gln Leu His Glu Asn	Ser Gly Ser Pro Glu	Thr		
	350		355		360
Ser Arg Ser Leu	Pro Ala Pro Gln Asp	Asn Asp Phe Leu Ser	Arg		
	365		370		375
Lys Ala Gln Asp	Cys Tyr Phe Met Lys	Leu His His Cys Pro	Gly		
	380		385		390
Asn His Ser Trp	Asp Ser Thr Ile Ser	Gly Ser Gln Arg Ala	Ala		
	395		400		405
Phe Cys Asp His	Lys Thr Thr Pro Cys	Ser Ser Ala Ile Ile	Asn		
	410		415		420
Pro Leu Ser Thr	Ala Gly Asn Ser Glu	Arg Leu Gln Pro Gly	Ile		
	425		430		435
Ala Gln Gln Trp	Ile Gln Ser Lys Arg	Glu Asp Ile Val Asn	Gln		
	440		445		450
Met Thr Glu Ala	Cys Leu Asn Gln Ser	Leu Asp Ala Leu Leu	Ser		
	455		460		465
Arg Asp Leu Ile	Met Lys Glu Asp Tyr	Glu Leu Val Ser Thr	Lys		
	470		475		480
Pro Thr Arg Thr	Ser Lys Val Arg Gln	Leu Leu Asp Thr Thr	Asp		
	485		490		495
Ile Gln Gly Glu	Glu Phe Ala Lys Val	Ile Val Gln Lys Leu	Lys		
	500		505		510
Asp Asn Lys Gln	Met Gly Leu Gln Pro	Tyr Pro Glu Ile Leu	Val		
	515		520		525
Val Ser Arg Ser	Pro Ser Leu Asn Leu	Leu Gln Asn Lys Ser	Met		
	530		535		540

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<211> 454

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2883243

<400> 7

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Ala Lys Thr Asp Ile	Asn Cys Gly Thr Asp	Leu Met Phe Tyr Ile
	20	25
Glu Met Asp Pro Pro	Ala Leu Pro Pro Lys	Pro Pro Lys Pro Thr
	35	40
		45

Thr	Val	Ala	Asn	Asn	Gly	Met	Asn	Asn	Asn	Met	Ser	Leu	Gln	Asp
				50					55					60
Ala	Glu	Trp	Tyr	Trp	Gly	Asp	Ile	Ser	Arg	Glu	Glu	Val	Asn	Glu
				65					70					75
Lys	Leu	Arg	Asp	Thr	Ala	Asp	Gly	Thr	Phe	Leu	Val	Arg	Asp	Ala
				80					85					90
Ser	Thr	Lys	Met	His	Gly	Asp	Tyr	Thr	Leu	Thr	Leu	Arg	Lys	Gly
				95					100					105
Gly	Asn	Asn	Lys	Leu	Ile	Lys	Ile	Phe	His	Arg	Asp	Gly	Lys	Tyr
				110					115					120
Gly	Phe	Ser	Asp	Pro	Leu	Thr	Phe	Ser	Ser	Val	Val	Glu	Leu	Ile
				125					130					135
Asn	His	Tyr	Arg	Asn	Glu	Ser	Leu	Ala	Gln	Tyr	Asn	Pro	Lys	Leu
				140					145					150
Asp	Val	Lys	Leu	Leu	Tyr	Pro	Val	Ser	Lys	Tyr	Gln	Gln	Asp	Gln
				155					160					165
Val	Val	Lys	Glu	Asp	Asn	Ile	Glu	Ala	Val	Gly	Lys	Lys	Leu	His
				170					175					180
Glu	Tyr	Asn	Thr	Gln	Phe	Gln	Glu	Lys	Ser	Arg	Glu	Tyr	Asp	Arg
				185					190					195
Leu	Tyr	Glu	Glu	Tyr	Thr	Arg	Thr	Ser	Gln	Glu	Ile	Gln	Met	Lys
				200					205					210
Arg	Thr	Ala	Ile	Glu	Ala	Phe	Asn	Glu	Thr	Ile	Lys	Ile	Phe	Glu
				215					220					225
Glu	Gln	Cys	Gln	Thr	Gln	Glu	Arg	Tyr	Ser	Lys	Glu	Tyr	Ile	Glu
				230					235					240
Lys	Phe	Lys	Arg	Glu	Gly	Asn	Glu	Lys	Glu	Ile	Gln	Arg	Ile	Met
				245					250					255
His	Asn	Tyr	Asp	Lys	Leu	Lys	Ser	Arg	Ile	Ser	Glu	Ile	Ile	Asp
				260					265					270
Ser	Arg	Arg	Arg	Leu	Glu	Glu	Asp	Leu	Lys	Lys	Gln	Ala	Ala	Glu
				275					280					285
Tyr	Arg	Glu	Ile	Asp	Lys	Arg	Met	Asn	Ser	Ile	Lys	Pro	Asp	Leu
				290					295					300
Ile	Gln	Leu	Arg	Lys	Thr	Arg	Asp	Gln	Tyr	Leu	Met	Trp	Leu	Thr
				305					310					315
Gln	Lys	Gly	Val	Arg	Gln	Lys	Lys	Leu	Asn	Glu	Trp	Leu	Gly	Asn
				320					325					330
Glu	Asn	Thr	Glu	Asp	Gln	Tyr	Ser	Leu	Val	Glu	Asp	Asp	Glu	Asp
				335					340					345
Leu	Pro	His	His	Asp	Glu	Lys	Thr	Trp	Asn	Val	Gly	Ser	Ser	Asn
				350					355					360
Arg	Asn	Lys	Ala	Glu	Asn	Leu	Leu	Arg	Gly	Lys	Arg	Asp	Gly	Thr
				365					370					375
Phe	Leu	Val	Arg	Glu	Ser	Ser	Lys	Gln	Gly	Cys	Tyr	Ala	Cys	Ser
				380					385					390
Val	Val	Val	Asp	Gly	Glu	Val	Lys	His	Cys	Val	Ile	Asn	Lys	Thr
				395					400					405
Ala	Thr	Gly	Tyr	Gly	Phe	Ala	Glu	Pro	Tyr	Asn	Leu	Tyr	Ser	Ser
				410					415					420
Leu	Lys	Glu	Leu	Val	Leu	His	Tyr	Gln	His	Thr	Ser	Leu	Val	Gln
				425					430					435
His	Asn	Asp	Ser	Leu	Asn	Val	Thr	Leu	Ala	Tyr	Pro	Val	Tyr	Ala
				440					445					450
Gln	Gln	Arg	Arg											

<210> 8
 <211> 502
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 3173355

<400> 8

PF-0565 USN

Met	Phe	Gly	Thr	Leu	Leu	Leu	Tyr	Cys	Phe	Phe	Leu	Ala	Thr	Val
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Pro	Ala	Leu	Ala	Glu	Thr	Gly	Gly	Glu	Arg	Gln	Leu	Ser	Pro	Glu
				20					25					30
Lys	Ser	Glu	Ile	Trp	Gly	Pro	Gly	Leu	Lys	Ala	Asp	Val	Val	Leu
				35					40					45
Pro	Ala	Arg	Tyr	Phe	Tyr	Ile	Gln	Ala	Val	Asp	Thr	Ser	Gly	Asn
				50					55					60
Lys	Phe	Thr	Ser	Ser	Pro	Gly	Glu	Lys	Val	Phe	Gln	Val	Lys	Val
				65					70					75
Ser	Ala	Pro	Glu	Glu	Gln	Phe	Thr	Arg	Val	Gly	Val	Gln	Val	Leu
				80					85					90
Asp	Arg	Lys	Asp	Gly	Ser	Phe	Ile	Val	Arg	Tyr	Arg	Met	Tyr	Ala
				95					100					105
Ser	Tyr	Lys	Asn	Leu	Lys	Val	Glu	Ile	Lys	Phe	Gln	Gly	Gln	His
				110					115					120
Val	Ala	Lys	Ser	Pro	Tyr	Ile	Leu	Lys	Gly	Pro	Val	Tyr	His	Glu
				125					130					135
Asn	Cys	Asp	Cys	Pro	Leu	Gln	Asp	Ser	Ala	Ala	Trp	Leu	Arg	Glu
				140					145					150
Met	Asn	Cys	Pro	Glu	Thr	Ile	Ala	Gln	Ile	Gln	Arg	Asp	Leu	Ala
				155					160					165
His	Phe	Pro	Ala	Val	Asp	Pro	Glu	Lys	Ile	Ala	Val	Glu	Ile	Pro
				170					175					180
Lys	Arg	Phe	Gly	Gln	Arg	Gln	Ser	Leu	Cys	His	Tyr	Thr	Leu	Lys
				185					190					195
Asp	Asn	Lys	Val	Tyr	Ile	Lys	Thr	His	Gly	Glu	His	Val	Gly	Phe
				200					205					210
Arg	Ile	Phe	Met	Asp	Ala	Ile	Leu	Leu	Ser	Leu	Thr	Arg	Lys	Val
				215					220					225
Lys	Met	Pro	Asp	Val	Glu	Leu	Phe	Val	Asn	Leu	Gly	Asp	Trp	Pro
				230					235					240
Leu	Glu	Lys	Lys	Lys	Ser	Asn	Ser	Asn	Ile	His	Pro	Ile	Phe	Ser
				245					250					255
Trp	Cys	Gly	Ser	Thr	Asp	Ser	Lys	Asp	Ile	Val	Met	Pro	Thr	Tyr
				260					265					270
Asp	Leu	Thr	Asp	Ser	Val	Leu	Glu	Thr	Met	Gly	Arg	Val	Ser	Leu
				275					280					285
Asp	Met	Met	Ser	Val	Gln	Ala	Asn	Thr	Gly	Pro	Pro	Trp	Glu	Ser
				290					295					300
Lys	Asn	Ser	Thr	Ala	Val	Trp	Arg	Gly	Arg	Asp	Ser	Arg	Lys	Glu
				305					310					315
Arg	Leu	Glu	Leu	Val	Lys	Leu	Ser	Arg	Lys	His	Pro	Glu	Leu	Ile
				320					325					330
Asp	Ala	Ala	Phe	Thr	Asn	Phe	Phe	Phe	Phe	Lys	His	Asp	Glu	Asn
				335					340					345
Leu	Tyr	Gly	Pro	Ile	Val	Lys	His	Ile	Ser	Phe	Phe	Asp	Phe	Phe
				350					355					360
Lys	His	Lys	Tyr	Gln	Ile	Asn	Ile	Asp	Gly	Thr	Val	Ala	Ala	Tyr
				365					370					375
Arg	Leu	Pro	Tyr	Leu	Leu	Val	Gly	Asp	Ser	Val	Val	Leu	Lys	Gln
				380					385					390
Asp	Ser	Ile	Tyr	Tyr	Glu	His	Phe	Tyr	Asn	Glu	Leu	Gln	Pro	Trp
				395					400					405
Lys	His	Tyr	Ile	Pro	Val	Lys	Ser	Asn	Leu	Ser	Asp	Leu	Leu	Glu
				410					415					420
Lys	Leu	Lys	Trp	Ala	Lys	Asp	His	Asp	Glu	Glu	Ala	Lys	Lys	Ile
				425					430					435
Ala	Lys	Ala	Gly	Gln	Glu	Phe	Ala	Arg	Asn	Asn	Leu	Met	Gly	Asp
				440					445					450
Asp	Ile	Phe	Cys	Tyr	Tyr	Phe	Lys	Leu	Phe	Gln	Glu	Tyr	Ala	Asn
				455					460					465
Leu	Gln	Val	Ser	Glu	Pro	Gln	Ile	Arg	Glu	Gly	Met	Lys	Arg	Val
				470					475					480
Glu	Pro	Gln	Thr	Glu	Asp	Asp	Leu	Phe	Pro	Cys	Thr	Cys	His	Arg
				485					490					495
Lys	Lys	Thr	Lys	Asp	Glu	Leu								

500

<210> 9
 <211> 282
 <212> PRT
 <213> Homo sapiens

<220>
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 <223> Incyte ID No: 5116906

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 1 5 10 15
 Pro Pro Phe Trp Asp Glu Asp Gln His Arg Leu Tyr Gln Gln Ile
 20 25 30
 Lys Ala Gly Ala Tyr Asp Phe Pro Ser Pro Glu Trp Asp Thr Val
 35 40 45
 Thr Pro Glu Ala Lys Asp Leu Ile Asn Lys Met Leu Thr Ile Asn
 50 55 60
 Pro Ala Lys Arg Ile Thr Ala Ser Glu Ala Leu Lys His Pro Trp
 65 70 75
 Ile Cys Gln Arg Ser Thr Val Ala Ser Met Met His Arg Gln Glu
 80 85 90
 Thr Val Asp Cys Leu Lys Lys Phe Asn Ala Arg Arg Lys Leu Lys
 95 100 105
 Gly Ala Ile Leu Thr Thr Met Leu Ala Thr Arg Asn Phe Ser Ala
 110 115 120
 Ala Lys Ser Leu Leu Lys Lys Pro Asp Gly Val Lys Glu Ser Thr
 125 130 135
 Glu Ser Ser Asn Thr Thr Ile Glu Asp Glu Asp Val Lys Ala Arg
 140 145 150
 Lys Gln Glu Ile Ile Lys Val Thr Glu Gln Leu Ile Glu Ala Ile
 155 160 165
 Asn Asn Gly Asp Phe Glu Ala Tyr Thr Lys Ile Cys Asp Pro Gly
 170 175 180
 Leu Thr Ala Phe Glu Pro Glu Ala Leu Gly Asn Leu Val Glu Gly
 185 190 195
 Met Asp Phe His Arg Phe Tyr Phe Glu Asn Ala Leu Ser Lys Ser
 200 205 210
 Asn Lys Pro Ile His Thr Ile Ile Leu Asn Pro His Val His Leu
 215 220 225
 Val Gly Asp Asp Ala Ala Cys Ile Ala Tyr Ile Arg Leu Thr Gln
 230 235 240
 Tyr Met Asp Gly Ser Gly Met Pro Lys Thr Met Gln Ser Glu Glu
 245 250 255
 Thr Arg Val Trp His Arg Arg Asp Gly Lys Trp Gln Asn Val His
 260 265 270
 Phe His Arg Ser Gly Ser Pro Thr Val Pro Ile Asn
 275 280

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 <211> 510
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 940589

<400> 10
 Met Lys Ala Asp Ile Lys Ile Trp Ile Leu Thr Gly Asp Lys Gln
 1 5 10 15
 Glu Thr Ala Ile Asn Ile Gly His Ser Cys Lys Leu Leu Lys Lys
 20 25 30
 Asn Met Gly Met Ile Val Ile Asn Glu Gly Ser Leu Asp Ser Phe
 35 40 45

Ser	Asn	Thr	Gln	Asn	Ser	Arg	Lys	Glu	Ala	Val	Leu	Leu	Ala	Lys
				50					55					60
Met	Lys	His	Pro	Asn	Ile	Val	Ala	Phe	Lys	Glu	Ser	Phe	Glu	Ala
				65					70					75
Glu	Gly	His	Leu	Tyr	Ile	Val	Met	Glu	Tyr	Cys	Asp	Gly	Gly	Asp
				80					85					90
Leu	Met	Gln	Lys	Ile	Lys	Gln	Gln	Lys	Gly	Lys	Leu	Phe	Pro	Glu
				95					100					105
Asp	Met	Ile	Leu	Asn	Trp	Phe	Thr	Gln	Met	Cys	Leu	Gly	Val	Asn
				110					115					120
His	Ile	His	Lys	Lys	Arg	Val	Leu	His	Arg	Asp	Ile	Lys	Ser	Lys
				125					130					135
Asn	Ile	Phe	Leu	Thr	Gln	Asn	Gly	Lys	Val	Lys	Leu	Gly	Asp	Phe
				140					145					150
Gly	Ser	Ala	Arg	Leu	Leu	Ser	Asn	Pro	Met	Ala	Phe	Ala	Cys	Thr
				155					160					165
Tyr	Val	Gly	Thr	Pro	Tyr	Tyr	Val	Pro	Pro	Glu	Ile	Trp	Glu	Asn
				170					175					180
Leu	Pro	Tyr	Asn	Asn	Lys	Ser	Asp	Ile	Trp	Ser	Leu	Gly	Cys	Ile
				185					190					195
Leu	Tyr	Glu	Leu	Cys	Thr	Leu	Lys	His	Pro	Phe	Gln	Ala	Asn	Ser
				200					205					210
Trp	Lys	Asn	Leu	Ile	Leu	Lys	Val	Cys	Gln	Gly	Cys	Ile	Ser	Pro
				215					220					225
Leu	Pro	Ser	His	Tyr	Ser	Tyr	Glu	Leu	Gln	Phe	Leu	Val	Lys	Gln
				230					235					240
Met	Phe	Lys	Arg	Asn	Pro	Ser	His	Arg	Pro	Ser	Ala	Thr	Thr	Leu
				245					250					255
Leu	Ser	Arg	Gly	Ile	Val	Ala	Arg	Leu	Val	Gln	Lys	Cys	Leu	Pro
				260					265					270
Pro	Glu	Ile	Ile	Met	Glu	Tyr	Gly	Glu	Glu	Val	Leu	Glu	Glu	Ile
				275					280					285
Lys	Asn	Ser	Lys	His	Asn	Thr	Pro	Arg	Lys	Lys	Thr	Asn	Pro	Ser
				290					295					300
Arg	Ile	Arg	Ile	Ala	Leu	Gly	Asn	Glu	Ala	Ser	Thr	Val	Gln	Glu
				305					310					315
Glu	Glu	Gln	Asp	Arg	Lys	Gly	Ser	His	Thr	Asp	Leu	Glu	Ser	Ile
				320					325					330
Asn	Glu	Asn	Leu	Val	Glu	Ser	Ala	Leu	Arg	Arg	Val	Asn	Arg	Glu
				335					340					345
Glu	Lys	Gly	Asn	Lys	Ser	Val	His	Leu	Arg	Lys	Ala	Ser	Ser	Pro
				350					355					360
Asn	Leu	His	Arg	Arg	Gln	Trp	Glu	Lys	Asn	Val	Pro	Asn	Thr	Ala
				365					370					375
Leu	Thr	Ala	Leu	Glu	Asn	Ala	Ser	Ile	Leu	Thr	Ser	Ser	Leu	Thr
				380					385					390
Ala	Glu	Asp	Asp	Arg	Gly	Gly	Ser	Val	Ile	Lys	Tyr	Ser	Lys	Asn
				395					400					405
Thr	Thr	Arg	Lys	Gln	Trp	Leu	Lys	Glu	Thr	Pro	Asp	Thr	Leu	Leu
				410					415					420
Asn	Ile	Leu	Lys	Asn	Ala	Asp	Leu	Ser	Leu	Ala	Phe	Gln	Thr	Tyr
				425					430					435
Thr	Ile	Tyr	Arg	Pro	Gly	Ser	Glu	Gly	Phe	Leu	Lys	Gly	Pro	Leu
				440					445					450
Ser	Glu	Glu	Thr	Glu	Ala	Ser	Asp	Ser	Val	Asp	Gly	Gly	His	Asp
				455					460					465
Ser	Val	Ile	Leu	Asp	Pro	Glu	Arg	Leu	Glu	Pro	Gly	Leu	Asp	Glu
				470					475					480
Glu	Asp	Thr	Asp	Phe	Glu	Glu	Glu	Asp	Asp	Asn	Pro	Asp	Trp	Val
				485					490					495
Ser	Glu	Leu	Lys	Lys	Arg	Ala	Gly	Trp	Gln	Gly	Leu	Cys	Asp	Arg
				500					505					510

<210> 11
 <211> 248
 <212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 304421

<400> 11

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Met Ala Glu Thr Ser Leu Pro Glu Leu Gly Gly Glu Asp Lys Ala
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Thr Pro Cys Pro Ser Ile Leu Glu Leu Glu Leu Leu Arg Ala
          20          25          30
Gly Lys Ser Ser Cys Ser Arg Val Asp Glu Val Trp Pro Asn Leu
          35          40          45
Phe Ile Gly Asp Ala Met Asp Ser Leu Gln Lys Gln Asp Leu Arg
          50          55          60
Arg Pro Lys Ile His Gly Ala Val Gln Ala Ser Pro Tyr Gln Pro
          65          70          75
Pro Thr Leu Ala Ser Leu Gln Arg Leu Leu Trp Val Arg Gln Ala
          80          85          90
Ala Thr Leu Asn His Ile Asp Glu Val Trp Pro Ser Leu Phe Leu
          95          100          105
Gly Asp Ala Tyr Ala Ala Arg Asp Lys Ser Lys Leu Ile Gln Leu
          110          115          120
Gly Ile Thr His Val Val Asn Ala Ala Ala Gly Lys Phe Gln Val
          125          130          135
Asp Thr Gly Ala Lys Phe Tyr Arg Gly Met Ser Leu Glu Tyr Tyr
          140          145          150
Gly Ile Glu Ala Asp Asp Asn Pro Phe Phe Asp Leu Ser Val Tyr
          155          160          165
Phe Leu Pro Val Ala Arg Tyr Ile Arg Ala Ala Leu Ser Val Pro
          170          175          180
Gln Gly Arg Val Leu Val His Cys Ala Met Gly Val Ser Arg Ser
          185          190          195
Ala Thr Leu Val Leu Ala Phe Leu Met Ile Tyr Glu Asn Met Thr
          200          205          210
Leu Val Glu Ala Ile Gln Thr Val Gln Ala His Arg Asn Ile Cys
          215          220          225
Pro Asn Ser Gly Phe Leu Arg Gln Leu Gln Val Leu Asp Asn Arg
          230          235          240
Leu Gly Arg Glu Thr Gly Arg Phe
          245

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<210> 12

<211> 810

<212> PRT

<213> Homo sapiens

<220>

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<223> Incyte ID No: 1213802

<400> 12

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Met Pro Asn Gln Gly Glu Asp Cys Tyr Phe Phe Phe Tyr Ser Thr
 1          5          10          15
Cys Thr Lys Gly Asp Ser Cys Pro Phe Arg His Cys Glu Ala Ala
          20          25          30
Ile Gly Asn Glu Thr Val Cys Thr Leu Trp Gln Glu Gly Arg Cys
          35          40          45
Phe Arg Gln Val Cys Arg Phe Arg His Met Glu Ile Asp Lys Lys
          50          55          60
Arg Ser Glu Ile Pro Cys Tyr Trp Glu Asn Gln Pro Thr Gly Cys
          65          70          75
Gln Lys Leu Asn Cys Ala Phe His His Asn Arg Gly Arg Tyr Val
          80          85          90
Asp Gly Leu Phe Leu Pro Pro Ser Lys Thr Val Leu Pro Thr Val
          95          100          105
Pro Glu Ser Pro Glu Glu Glu Val Lys Ala Ser Gln Leu Ser Val

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	110		115		120
Gln Gln Asn Lys	Leu Ser Val Gln Ser	Asn Pro Ser Pro Gln	Leu		
	125		130		135
Arg Ser Val Met	Lys Val Glu Ser Ser	Glu Asn Val Pro Ser	Pro		
	140		145		150
Thr His Pro Pro	Val Val Ile Asn Ala	Ala Asp Asp Asp Glu	Asp		
	155		160		165
Asp Asp Asp Gln	Phe Ser Glu Glu Gly	Asp Glu Thr Lys Thr	Pro		
	170		175		180
Thr Leu Gln Pro	Thr Pro Glu Val His	Asn Gly Leu Arg Val	Thr		
	185		190		195
Ser Val Arg Lys	Pro Ala Val Asn Ile	Lys Gln Gly Glu Cys	Leu		
	200		205		210
Asn Phe Gly Ile	Lys Thr Leu Glu Glu	Ile Lys Ser Lys Lys	Met		
	215		220		225
Lys Glu Lys Ser	Lys Lys Gln Gly Glu	Gly Ser Ser Gly Val	Ser		
	230		235		240
Ser Leu Leu Leu	His Pro Glu Pro Val	Pro Gly Pro Glu Lys	Glu		
	245		250		255
Asn Val Arg Thr	Val Val Arg Thr Val	Thr Leu Ser Thr Lys	Gln		
	260		265		270
Gly Glu Glu Pro	Leu Val Arg Leu Ser	Leu Thr Glu Arg Leu	Gly		
	275		280		285
Lys Arg Lys Phe	Ser Ala Gly Gly Asp	Ser Asp Pro Pro Leu	Lys		
	290		295		300
Arg Ser Leu Ala	Gln Arg Leu Gly Lys	Lys Val Glu Ala Pro	Glu		
	305		310		315
Thr Asn Ile Asp	Lys Thr Pro Lys Lys	Ala Gln Val Ser Lys	Ser		
	320		325		330
Leu Lys Glu Arg	Leu Gly Met Ser Ala	Asp Pro Asp Asn Glu	Asp		
	335		340		345
Ala Thr Asp Lys	Val Asn Lys Val Gly	Glu Ile His Val Lys	Thr		
	350		355		360
Leu Glu Glu Ile	Leu Leu Glu Arg Ala	Ser Gln Lys Arg Gly	Glu		
	365		370		375
Leu Gln Thr Lys	Leu Lys Thr Glu Gly	Pro Ser Lys Thr Asp	Asp		
	380		385		390
Ser Thr Ser Gly	Ala Arg Ser Ser Ser	Thr Ile Arg Ile Lys	Thr		
	395		400		405
Phe Ser Glu Val	Leu Ala Glu Lys Lys	His Arg Gln Gln Glu	Ala		
	410		415		420
Glu Arg Gln Lys	Ser Lys Lys Asp Thr	Thr Cys Ile Lys Leu	Lys		
	425		430		435
Ile Asp Ser Glu	Ile Lys Lys Thr Val	Val Leu Pro Pro Ile	Val		
	440		445		450
Ala Ser Arg Gly	Gln Ser Glu Glu Pro	Ala Gly Lys Thr Lys	Ser		
	455		460		465
Met Gln Glu Val	His Ile Lys Thr Leu	Glu Glu Ile Lys Leu	Glu		
	470		475		480
Lys Ala Leu Arg	Val Gln Gln Ser Ser	Glu Ser Ser Thr Ser	Ser		
	485		490		495
Pro Ser Gln His	Glu Ala Thr Pro Gly	Ala Arg Arg Leu Leu	Arg		
	500		505		510
Ile Thr Lys Arg	Thr Gly Met Lys Glu	Glu Lys Asn Leu Gln	Glu		
	515		520		525
Gly Asn Glu Val	Asp Ser Gln Ser Ser	Ile Arg Thr Glu Ala	Lys		
	530		535		540
Glu Ala Ser Gly	Glu Thr Thr Gly Val	Asp Ile Thr Lys Ile	Gln		
	545		550		555
Val Lys Arg Cys	Glu Thr Met Arg Glu	Lys His Met Gln Lys	Gln		
	560		565		570
Gln Glu Arg Glu	Lys Ser Val Leu Thr	Pro Leu Arg Gly Asp	Val		
	575		580		585
Ala Ser Cys Asn	Thr Gln Val Ala Glu	Lys Pro Val Leu Thr	Ala		
	590		595		600
Val Pro Gly Ile	Thr Arg His Leu Thr	Lys Arg Leu Pro Thr	Lys		
	605		610		615

Ser	Ser	Gln	Lys	Val	Glu	Val	Glu	Thr	Ser	Gly	Ile	Gly	Asp	Ser	
				620					625					630	
Leu	Leu	Asn	Val	Lys	Cys	Ala	Ala	Gln	Thr	Leu	Glu	Lys	Arg	Gly	
				635					640					645	
Lys	Ala	Lys	Pro	Lys	Val	Asn	Val	Lys	Pro	Ser	Val	Val	Lys	Val	
				650					655					660	
Val	Ser	Ser	Pro	Lys	Leu	Ala	Pro	Lys	Arg	Lys	Ala	Val	Glu	Met	
				665					670					675	
His	Ala	Ala	Val	Ile	Ala	Ala	Val	Lys	Pro	Leu	Ser	Ser	Ser	Ser	
				680					685					690	
Val	Leu	Gln	Glu	Pro	Pro	Ala	Lys	Lys	Ala	Ala	Val	Ala	Val	Val	
				695					700					705	
Pro	Leu	Val	Ser	Glu	Asp	Lys	Ser	Val	Thr	Val	Pro	Glu	Ala	Glu	
				710					715					720	
Asn	Pro	Arg	Asp	Ser	Leu	Val	Leu	Pro	Pro	Thr	Gln	Ser	Ser	Ser	
				725					730					735	
Asp	Ser	Ser	Pro	Pro	Glu	Val	Ser	Gly	Pro	Ser	Ser	Ser	Gln	Met	
				740					745					750	
Ser	Met	Lys	Thr	Arg	Arg	Leu	Ser	Ser	Ala	Ser	Thr	Gly	Lys	Pro	
				755					760					765	
Pro	Leu	Ser	Val	Glu	Asp	Asp	Phe	Glu	Lys	Leu	Ile	Trp	Glu	Ile	
				770					775					780	
Ser	Gly	Gly	Lys	Leu	Glu	Ala	Glu	Ile	Asp	Leu	Asp	Pro	Gly	Lys	
				785					790					795	
Asp	Glu	Asp	Asp	Leu	Leu	Leu	Glu	Leu	Ser	Glu	Met	Ile	Asp	Ser	
				800					805					810	

<210> 13

<211> 549

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1378134

<400> 13

Met	Arg	Arg	Arg	Ala	Ser	Asn	Ala	Ala	Ala	Ala	Ala	His	Thr	Ile	
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Gly	Gly	Ser	Lys	His	Thr	Met	Asn	Asp	His	Leu	His	Val	Gly	Ser	
				20					25					30	
His	Ala	His	Gly	Gln	Ile	Gln	Val	Arg	Gln	Leu	Phe	Glu	Asp	Asn	
				35					40					45	
Ser	Asn	Lys	Arg	Thr	Val	Leu	Thr	Thr	Gln	Pro	Asn	Gly	Leu	Thr	
				50					55					60	
Thr	Val	Gly	Lys	Thr	Gly	Leu	Pro	Val	Val	Pro	Glu	Arg	Gln	Leu	
				65					70					75	
Asp	Ser	Ile	His	Arg	Arg	Gln	Gly	Ser	Ser	Thr	Ser	Leu	Lys	Ser	
				80					85					90	
Met	Glu	Gly	Met	Gly	Lys	Val	Lys	Ala	Thr	Pro	Met	Thr	Pro	Glu	
				95					100					105	
Gln	Ala	Met	Lys	Gln	Tyr	Met	Gln	Lys	Leu	Thr	Ala	Phe	Glu	His	
				110					115					120	
His	Glu	Ile	Phe	Ser	Tyr	Pro	Glu	Ile	Tyr	Phe	Leu	Gly	Leu	Asn	
				125					130					135	
Ala	Lys	Lys	Arg	Gln	Gly	Met	Thr	Gly	Gly	Pro	Asn	Asn	Gly	Gly	
				140					145					150	
Tyr	Asp	Asp	Asp	Gln	Gly	Ser	Tyr	Val	Gln	Val	Pro	His	Asp	His	
				155					160					165	
Val	Ala	Tyr	Arg	Tyr	Glu	Val	Leu	Lys	Val	Ile	Gly	Lys	Gly	Ser	
				170					175					180	
Phe	Gly	Gln	Val	Val	Lys	Ala	Tyr	Asp	His	Lys	Val	His	Gln	His	
				185					190					195	
Val	Ala	Leu	Lys	Met	Val	Arg	Asn	Glu	Lys	Arg	Phe	His	Arg	Gln	
				200					205					210	
Ala	Ala	Glu	Glu	Ile	Arg	Ile	Leu	Glu	His	Leu	Arg	Lys	Gln	Asp	

	215		220		225
Lys Asp Asn Thr	Met Asn Val Ile His	Met Leu Glu Asn Phe	Thr		
	230		240		
Phe Arg Asn His	Ile Cys Met Thr Phe	Glu Leu Leu Ser Met	Asn		
	245		255		
Leu Tyr Glu Leu	Ile Lys Lys Asn Lys	Phe Gln Gly Phe Ser	Leu		
	260		270		
Pro Leu Val Arg	Lys Phe Ala His Ser	Ile Leu Gln Cys Leu	Asp		
	275		285		
Ala Leu His Lys	Asn Arg Ile Ile His	Cys Asp Leu Lys Pro	Glu		
	290		300		
Asn Ile Leu Leu	Lys Gln Gln Gly Arg	Ser Gly Ile Lys Val	Ile		
	305		315		
Asp Phe Gly Ser	Ser Cys Tyr Glu His	Gln Arg Val Tyr Thr	Tyr		
	320		330		
Ile Gln Ser Arg	Phe Tyr Arg Ala Pro	Glu Val Ile Leu Gly	Ala		
	335		345		
Arg Tyr Gly Met	Pro Ile Asp Met Trp	Ser Leu Gly Cys Ile	Leu		
	350		360		
Ala Glu Leu Leu	Thr Gly Tyr Pro Leu	Leu Pro Gly Glu Asp	Glu		
	365		375		
Gly Asp Gln Leu	Ala Cys Met Ile Glu	Leu Leu Gly Met Pro	Ser		
	380		390		
Gln Lys Leu Leu	Asp Ala Ser Lys Arg	Ala Lys Asn Phe Val	Ser		
	395		405		
Ser Lys Gly Tyr	Pro Arg Tyr Cys Thr	Val Thr Thr Leu Ser	Asp		
	410		420		
Gly Ser Val Val	Leu Asn Gly Gly Arg	Ser Arg Arg Gly Lys	Leu		
	425		435		
Arg Gly Pro Pro	Glu Ser Arg Glu Trp	Gly Asn Ala Leu Lys	Gly		
	440		450		
Cys Asp Asp Pro	Leu Phe Leu Asp Phe	Leu Lys Gln Cys Leu	Glu		
	455		465		
Trp Asp Pro Ala	Val Arg Met Thr Pro	Gly Gln Ala Leu Arg	His		
	470		480		
Pro Trp Leu Arg	Arg Arg Leu Pro Lys	Pro Pro Thr Gly Glu	Lys		
	485		495		
Thr Ser Val Lys	Arg Ile Thr Glu Ser	Thr Gly Ala Ile Thr	Ser		
	500		510		
Ile Ser Lys Leu	Pro Pro Pro Ser Ser	Ser Ala Ser Lys Leu	Arg		
	515		525		
Thr Asn Leu Ala	Gln Met Thr Asp Ala	Asn Gly Asn Ile Gln	Gln		
	530		540		
Arg Thr Val Leu	Pro Lys Leu Val Ser				
	545				

<210> 14

<211> 416

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1490070

<400> 14

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Phe Thr Ala His Thr Gly Tyr Glu Val Leu Gln Arg Leu Leu		
20 25 30		
Asp Gly Arg Lys Met Cys Lys Asp Met Val Glu Leu Leu Trp Gln		
35 40 45		
Arg Ala Gln Ala Glu Glu Arg Tyr Gly Lys Glu Leu Val Gln Ile		
50 55 60		
Ala Arg Lys Ala Gly Gly Gln Thr Glu Ile Asn Ser Leu Arg Ala		
65 70 75		
Ser Phe Asp Ser Leu Lys Gln Gln Met Glu Asn Val Gly Ser Ser		

	80		85		90
His Ile Gln Leu	Ala Leu Thr Leu Arg	Glu Glu Leu Arg Ser	Leu		
	95		100		105
Glu Glu Phe Arg	Glu Arg Gln Lys Glu	Arg Lys Lys Tyr	Glu		
	110		115		120
Ala Val Met Asp	Arg Val Gln Lys Ser	Lys Leu Ser Leu Tyr	Lys		
	125		130		135
Lys Ala Met Glu	Ser Lys Lys Thr Tyr	Glu Gln Lys Cys Arg	Asp		
	140		145		150
Ala Asp Asp Ala	Glu Gln Ala Phe Glu	Arg Ile Ser Ala Asn	Gly		
	155		160		165
His Gln Lys Gln	Val Glu Lys Ser Gln	Asn Lys Ala Arg Gln	Cys		
	170		175		180
Lys Asp Ser Ala	Thr Glu Ala Glu Arg	Val Tyr Arg Gln Ser	Ile		
	185		190		195
Ala Gln Leu Glu	Lys Val Arg Ala Glu	Trp Glu Gln Glu His	Arg		
	200		205		210
Thr Thr Cys Glu	Ala Phe Gln Leu Gln	Glu Phe Asp Arg Leu	Thr		
	215		220		225
Ile Leu Arg Asn	Ala Leu Trp Val His	Ser Asn Gln Leu Ser	Met		
	230		235		240
Gln Cys Val Lys	Asp Asp Glu Leu Tyr	Glu Glu Val Arg Leu	Thr		
	245		250		255
Leu Glu Gly Cys	Ser Ile Asp Ala Asp	Ile Asp Ser Phe Ile	Gln		
	260		265		270
Ala Lys Ser Thr	Gly Thr Glu Pro Pro	Ala Pro Val Pro Tyr	Gln		
	275		280		285
Asn Tyr Tyr Asp	Arg Glu Val Thr Pro	Leu Thr Ser Ser Pro	Gly		
	290		295		300
Ile Gln Pro Ser	Cys Gly Met Ile Lys	Arg Phe Ser Gly Leu	Leu		
	305		310		315
His Gly Ser Pro	Lys Thr Thr Ser Leu	Ala Ala Ser Ala Ala	Ser		
	320		325		330
Thr Glu Thr Leu	Thr Pro Thr Pro Glu	Arg Asn Glu Gly Val	Tyr		
	335		340		345
Thr Ala Ile Ala	Val Gln Glu Ile Gln	Gly Asn Pro Ala Ser	Pro		
	350		355		360
Ala Gln Glu Tyr	Arg Ala Leu Tyr Asp	Tyr Thr Ala Gln Asn	Pro		
	365		370		375
Asp Glu Leu Asp	Leu Ser Ala Gly Asp	Ile Leu Glu Val Ile	Leu		
	380		385		390
Glu Gly Glu Asp	Gly Trp Trp Thr Val	Glu Arg Asn Gly Gln	Arg		
	395		400		405
Gly Phe Val Pro	Gly Ser Tyr Leu Glu	Lys Leu			
	410		415		

<210> 15

<211> 425

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1997814

<400> 15

Met Glu Gln Gly	Leu Glu Glu Glu Glu	Glu Val Asp Pro Arg	Ile
1	5	10	15
Gln Gly Glu Leu	Glu Lys Leu Asn Gln	Ser Thr Asp Asp Ile	Asn
	20	25	30
Arg Arg Glu Thr	Glu Leu Glu Asp Ala	Arg Gln Lys Phe Arg	Ser
	35	40	45
Val Leu Val Glu	Ala Thr Val Lys Leu	Asp Glu Leu Val Lys	Lys
	50	55	60
Ile Gly Lys Ala	Val Glu Asp Ser Lys	Pro Tyr Trp Glu Ala	Arg
	65	70	75
Arg Val Ala Arg	Gln Ala Gln Leu Glu	Ala Gln Lys Ala Thr	Gln

	80		85		90
Asp Phe Gln Arg	Ala Thr Glu Val Leu	Arg Ala Ala Lys Glu Thr			
	95	100			105
Ile Ser Leu Ala	Glu Gln Arg Leu Leu	Glu Asp Asp Lys Arg Gln			
	110	115			120
Phe Asp Ser Ala	Trp Gln Glu Met Leu	Asn His Ala Thr Gln Arg			
	125	130			135
Val Met Glu Ala	Glu Gln Thr Lys Thr	Arg Ser Glu Leu Val His			
	140	145			150
Lys Glu Thr Ala	Ala Arg Tyr Asn Ala	Ala Met Gly Arg Met Arg			
	155	160			165
Gln Leu Glu Lys	Lys Leu Lys Arg Ala	Ile Asn Lys Ser Lys Pro			
	170	175			180
Tyr Phe Glu Leu	Lys Ala Lys Tyr Tyr	Val Gln Leu Glu Gln Leu			
	185	190			195
Lys Lys Thr Val	Asp Asp Leu Gln Ala	Lys Leu Thr Leu Ala Lys			
	200	205			210
Gly Glu Tyr Lys	Met Ala Leu Lys Asn	Leu Glu Met Ile Ser Asp			
	215	220			225
Glu Ile His Glu	Arg Arg Arg Ser Ser	Ala Met Gly Pro Arg Gly			
	230	235			240
Cys Gly Val Gly	Ala Glu Gly Ser Ser	Thr Ser Val Glu Asp Leu			
	245	250			255
Pro Gly Ser Lys	Pro Glu Pro Asp Ala	Ile Ser Val Ala Ser Glu			
	260	265			270
Ala Phe Glu Asp	Asp Ser Cys Ser Asn	Phe Val Ser Glu Asp Asp			
	275	280			285
Ser Glu Thr Gln	Ser Val Ser Ser Phe	Ser Ser Gly Pro Thr Ser			
	290	295			300
Pro Ser Glu Met	Pro Asp Gln Phe Pro	Ala Val Val Arg Pro Gly			
	305	310			315
Ser Leu Asp Leu	Pro Ser Pro Val Ser	Leu Ser Glu Phe Gly Met			
	320	325			330
Met Phe Pro Val	Leu Gly Pro Arg Ser	Glu Cys Ser Gly Ala Ser			
	335	340			345
Ser Pro Glu Cys	Glu Val Glu Arg Gly	Asp Arg Ala Glu Gly Ala			
	350	355			360
Glu Asn Lys Thr	Ser Asp Lys Ala Asn	Asn Asn Arg Gly Leu Ser			
	365	370			375
Ser Ser Ser Gly	Ser Gly Gly Ser Ser	Lys Ser Gln Ser Ser Thr			
	380	385			390
Ser Pro Glu Gly	Gln Ala Leu Glu Asn	Arg Met Lys Gln Leu Ser			
	395	400			405
Leu Gln Cys Ser	Lys Gly Arg Asp Gly	Ile Ile Ala Asp Ile Lys			
	410	415			420
Met Val Gln Ile	Gly				
	425				

<210> 16

<211> 1135

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2299715

<400> 16

Met Ala Asn Asp	Ser Pro Ala Lys Ser	Leu Val Asp Ile Asp Leu
1	5	10
Ser Ser Leu Arg	Asp Pro Ala Gly Ile	Phe Glu Leu Val Glu Val
	20	25
Val Gly Asn Gly	Thr Tyr Gly Gln Val	Tyr Lys Gly Arg His Val
	35	40
Lys Thr Gly Gln	Leu Ala Ala Ile Lys	Val Met Asp Val Thr Glu
	50	55
Asp Glu Glu Glu	Glu Ile Lys Leu Glu	Ile Asn Met Leu Lys Lys

				65					70					75
Tyr	Ser	His	His	Arg	Asn	Ile	Ala	Thr	Tyr	Tyr	Gly	Ala	Phe	Ile
				80					85					90
Lys	Lys	Ser	Pro	Pro	Gly	His	Asp	Asp	Gln	Leu	Trp	Leu	Val	Met
				95					100					105
Glu	Phe	Cys	Gly	Ala	Gly	Ser	Ile	Thr	Asp	Leu	Val	Lys	Asn	Thr
				110					115					120
Lys	Gly	Asn	Thr	Leu	Lys	Glu	Asp	Trp	Ile	Ala	Tyr	Ile	Ser	Arg
				125					130					135
Glu	Ile	Leu	Arg	Gly	Leu	Ala	His	Leu	His	Ile	His	His	Val	Ile
				140					145					150
His	Arg	Asp	Ile	Lys	Gly	Gln	Asn	Val	Leu	Leu	Thr	Glu	Asn	Ala
				155					160					165
Gly	Val	Lys	Leu	Val	Asp	Phe	Gly	Val	Ser	Ala	Gln	Leu	Asp	Arg
				170					175					180
Thr	Val	Gly	Arg	Arg	Asn	Thr	Phe	Ile	Gly	Thr	Pro	Tyr	Trp	Met
				185					190					195
Ala	Pro	Glu	Val	Ile	Ala	Cys	Asp	Glu	Asn	Pro	Asp	Ala	Thr	Tyr
				200					205					210
Asp	Tyr	Arg	Ser	Asp	Leu	Trp	Ser	Cys	Gly	Ile	Thr	Ala	Ile	Glu
				215					220					225
Met	Ala	Glu	Gly	Ala	Pro	Pro	Leu	Cys	Asp	Met	His	Pro	Met	Arg
				230					235					240
Ala	Leu	Phe	Leu	Ile	Pro	Arg	Asn	Pro	Pro	Pro	Arg	Leu	Lys	Ser
				245					250					255
Lys	Lys	Trp	Ser	Lys	Lys	Phe	Phe	Ser	Phe	Ile	Glu	Gly	Cys	Leu
				260					265					270
Val	Lys	Asn	Tyr	Met	Gln	Arg	Pro	Ser	Thr	Glu	Gln	Leu	Leu	Lys
				275					280					285
His	Pro	Phe	Ile	Arg	Asp	Gln	Pro	Asn	Glu	Arg	Gln	Val	Arg	Ile
				290					295					300
Gln	Leu	Lys	Asp	His	Ile	Asp	Arg	Thr	Arg	Lys	Lys	Arg	Gly	Glu
				305					310					315
Lys	Asp	Glu	Thr	Glu	Tyr	Glu	Tyr	Ser	Gly	Ser	Glu	Glu	Glu	Glu
				320					325					330
Glu	Glu	Val	Pro	Glu	Gln	Glu	Gly	Glu	Pro	Ser	Ser	Ile	Val	Asn
				335					340					345
Val	Pro	Gly	Glu	Ser	Thr	Leu	Arg	Arg	Asp	Phe	Leu	Arg	Leu	Gln
				350					355					360
Gln	Glu	Asn	Lys	Glu	Arg	Ser	Glu	Ala	Leu	Arg	Arg	Gln	Gln	Leu
				365					370					375
Leu	Gln	Glu	Gln	Gln	Leu	Arg	Glu	Gln	Glu	Glu	Tyr	Lys	Arg	Gln
				380					385					390
Leu	Leu	Ala	Glu	Arg	Gln	Lys	Arg	Ile	Glu	Gln	Gln	Lys	Glu	Gln
				395					400					405
Arg	Arg	Arg	Leu	Glu	Glu	Gln	Gln	Arg	Arg	Glu	Arg	Glu	Ala	Arg
				410					415					420
Arg	Gln	Gln	Glu	Arg	Glu	Gln	Arg	Arg	Arg	Glu	Gln	Glu	Glu	Lys
				425					430					435
Arg	Arg	Leu	Glu	Glu	Leu	Glu	Arg	Arg	Arg	Lys	Glu	Glu	Glu	Glu
				440					445					450
Arg	Arg	Arg	Ala	Glu	Glu	Glu	Lys	Arg	Arg	Val	Glu	Arg	Glu	Gln
				455					460					465
Glu	Tyr	Ile	Arg	Arg	Gln	Leu	Glu	Glu	Glu	Gln	Arg	His	Leu	Glu
				470					475					480
Val	Leu	Gln	Gln	Gln	Leu	Leu	Gln	Glu	Gln	Ala	Met	Leu	Leu	His
				485					490					495
Asp	His	Arg	Arg	Pro	His	Pro	Gln	His	Ser	Gln	Gln	Pro	Pro	Pro
				500					505					510
Pro	Gln	Gln	Glu	Arg	Ser	Lys	Pro	Ser	Phe	His	Ala	Pro	Glu	Pro
				515					520					525
Lys	Ala	His	Tyr	Glu	Pro	Ala	Asp	Arg	Ala	Arg	Glu	Val	Pro	Val
				530					535					540
Arg	Thr	Thr	Ser	Arg	Ser	Pro	Val	Leu	Ser	Arg	Arg	Asp	Ser	Pro
				545					550					555
Leu	Gln	Gly	Ser	Gly	Gln	Gln	Asn	Ser	Gln	Ala	Gly	Gln	Arg	Asn
				560					565					570

Ser	Thr	Ser	Ile	Glu	Pro	Arg	Leu	Leu	Trp	Glu	Arg	Val	Glu	Lys
				575					580					585
Leu	Val	Pro	Arg	Pro	Gly	Ser	Gly	Ser	Ser	Ser	Gly	Ser	Ser	Asn
				590					595					600
Ser	Gly	Ser	Gln	Pro	Gly	Ser	His	Pro	Gly	Ser	Gln	Ser	Gly	Ser
				605					610					615
Gly	Glu	Arg	Phe	Arg	Val	Arg	Ser	Ser	Ser	Lys	Ser	Glu	Gly	Ser
				620					625					630
Pro	Ser	Gln	Arg	Leu	Glu	Asn	Ala	Val	Lys	Lys	Pro	Glu	Asp	Lys
				635					640					645
Lys	Glu	Val	Phe	Arg	Pro	Leu	Lys	Pro	Ala	Asp	Leu	Thr	Ala	Leu
				650					655					660
Ala	Lys	Glu	Leu	Arg	Ala	Val	Glu	Asp	Val	Arg	Pro	Pro	His	Lys
				665					670					675
Val	Thr	Asp	Tyr	Ser	Ser	Ser	Ser	Glu	Glu	Ser	Gly	Thr	Thr	Asp
				680					685					690
Glu	Glu	Asp	Asp	Asp	Val	Glu	Gln	Glu	Gly	Ala	Asp	Glu	Ser	Thr
				695					700					705
Ser	Gly	Pro	Glu	Asp	Thr	Arg	Ala	Ala	Ser	Ser	Leu	Asn	Leu	Ser
				710					715					720
Asn	Gly	Glu	Thr	Glu	Ser	Val	Lys	Thr	Met	Ile	Val	His	Asp	Asp
				725					730					735
Val	Glu	Ser	Glu	Pro	Ala	Met	Thr	Pro	Ser	Lys	Glu	Gly	Thr	Leu
				740					745					750
Ile	Val	Arg	Gln	Thr	Gln	Ser	Ala	Ser	Ser	Thr	Leu	Gln	Lys	His
				755					760					765
Lys	Ser	Ser	Ser	Ser	Phe	Thr	Pro	Phe	Ile	Asp	Pro	Arg	Leu	Leu
				770					775					780
Gln	Ile	Ser	Pro	Ser	Ser	Gly	Thr	Thr	Val	Thr	Ser	Val	Val	Gly
				785					790					795
Phe	Ser	Cys	Asp	Gly	Met	Arg	Pro	Glu	Ala	Ile	Arg	Gln	Asp	Pro
				800					805					310
Thr	Arg	Lys	Gly	Ser	Val	Val	Asn	Val	Asn	Pro	Thr	Asn	Thr	Arg
				815					820					325
Pro	Gln	Ser	Asp	Thr	Pro	Glu	Ile	Arg	Lys	Tyr	Lys	Lys	Arg	Phe
				830					835					340
Asn	Ser	Glu	Ile	Leu	Cys	Ala	Ala	Leu	Trp	Gly	Val	Asn	Leu	Leu
				845					850					355
Val	Gly	Thr	Glu	Ser	Gly	Leu	Met	Leu	Leu	Asp	Arg	Ser	Gly	Gln
				860					865					370
Gly	Lys	Val	Tyr	Pro	Leu	Ile	Asn	Arg	Arg	Arg	Phe	Gln	Gln	Met
				875					880					385
Asp	Val	Leu	Glu	Gly	Leu	Asn	Val	Leu	Val	Thr	Ile	Ser	Gly	Lys
				890					895					900
Lys	Asp	Lys	Leu	Arg	Val	Tyr	Tyr	Leu	Ser	Trp	Leu	Arg	Asn	Lys
				905					910					915
Ile	Leu	His	Asn	Asp	Pro	Glu	Val	Glu	Lys	Lys	Gln	Gly	Trp	Thr
				920					925					930
Thr	Val	Gly	Asp	Leu	Glu	Gly	Cys	Val	His	Tyr	Lys	Val	Val	Lys
				935					940					945
Tyr	Glu	Arg	Ile	Lys	Phe	Leu	Val	Ile	Ala	Leu	Lys	Ser	Ser	Val
				950					955					960
Glu	Val	Tyr	Ala	Trp	Ala	Pro	Lys	Pro	Tyr	His	Lys	Phe	Met	Ala
				965					970					975
Phe	Lys	Ser	Phe	Gly	Glu	Leu	Val	His	Gly	Ser	Cys	Ala	Gly	Phe
				980					985					990
His	Ala	Val	Asp	Val	Asp	Ser	Gly	Ser	Val	Tyr	Asp	Ile	Tyr	Leu
				995					1000					1005
Pro	Thr	His	Ile	Gln	Cys	Ser	Ile	Lys	Pro	His	Ala	Ile	Ile	Ile
				1010					1015					1020
Leu	Pro	Asn	Thr	Asp	Gly	Met	Glu	Leu	Val	Val	Cys	Tyr	Glu	Asp
				1025					1030					1035
Glu	Gly	Val	Tyr	Val	Asn	Thr	Tyr	Gly	Arg	Ile	Thr	Lys	Asp	Val
				1040					1045					1050
Val	Leu	Gln	Trp	Gly	Glu	Met	Pro	Thr	Ser	Val	Ala	Tyr	Ile	Arg
				1055					1060					1065
Ser	Asn	Gln	Thr	Met	Gly	Trp	Gly	Glu	Lys	Ala	Ile	Glu	Ile	Arg

1070	1075	1080
Ser Val Glu Thr Gly His Leu Asp Gly Val Phe Met His Lys Arg		
1085	1090	1095
Ala Gln Arg Leu Lys Phe Leu Cys Glu Arg Asn Asp Lys Val Phe		
1100	1105	1110
Phe Ala Ser Val Arg Ser Gly Gly Ser Ser Gln Val Tyr Phe Met		
1115	1120	1125
Thr Leu Gly Arg Thr Ser Leu Leu Ser Trp		
1130	1135	

<210> 17
 <211> 228
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 209854

<400> 17

Met Pro Thr Asn Cys Ala Ala Ala Gly Cys Ala Thr Thr Tyr Asn		
1 5 10 15		
Lys His Ile Asn Ile Ser Phe His Arg Phe Pro Leu Asp Pro Lys		
20 25 30		
Arg Arg Lys Glu Trp Val Arg Leu Val Arg Arg Lys Asn Phe Val		
35 40 45		
Pro Gly Lys His Thr Phe Leu Cys Ser Lys His Phe Glu Ala Ser		
50 55 60		
Cys Phe Asp Leu Thr Gly Gln Thr Arg Arg Leu Lys Met Asp Ala		
65 70 75		
Val Pro Thr Ile Phe Asp Phe Cys Thr His Ile Lys Ser Met Lys		
80 85 90		
Leu Lys Ser Arg Asn Leu Leu Lys Lys Asn Asn Ser Cys Ser Pro		
95 100 105		
Ala Gly Pro Ser Asn Leu Lys Ser Asn Ile Ser Ser Gln Gln Val		
110 115 120		
Leu Leu Glu His Ser Tyr Ala Phe Arg Asn Pro Met Glu Ala Lys		
125 130 135		
Lys Arg Ile Ile Lys Leu Glu Lys Glu Ile Ala Ser Leu Arg Arg		
140 145 150		
Lys Met Lys Thr Cys Leu Gln Lys Glu Arg Arg Ala Thr Arg Arg		
155 160 165		
Trp Ile Lys Ala Thr Cys Leu Val Lys Asn Leu Glu Ala Asn Ser		
170 175 180		
Val Leu Pro Lys Gly Thr Ser Glu His Met Leu Pro Thr Ala Leu		
185 190 195		
Ser Ser Leu Pro Leu Glu Asp Phe Lys Ile Leu Glu Gln Asp Gln		
200 205 210		
Gln Asp Lys Thr Leu Leu Ser Leu Asn Leu Lys Gln Thr Lys Ser		
215 220 225		
Thr Phe Ile		

<210> 18
 <211> 503
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1384286

<400> 18

Met Ala Thr Thr Val Thr Cys Thr Arg Phe Thr Asp Glu Tyr Gln		
1 5 10 15		
Leu Tyr Glu Asp Ile Gly Lys Gly Ala Phe Ser Val Val Arg Arg		
20 25 30		

Cys	Val	Lys	Leu	Cys	Thr	Gly	His	Glu	Tyr	Ala	Ala	Lys	Ile	Ile
				35					40					45
Asn	Thr	Lys	Lys	Leu	Ser	Ala	Arg	Asp	His	Gln	Lys	Leu	Glu	Arg
				50					55					60
Glu	Ala	Arg	Ile	Cys	Arg	Leu	Leu	Lys	His	Ser	Asn	Ile	Val	Arg
				65					70					75
Leu	His	Asp	Ser	Ile	Ser	Glu	Glu	Gly	Phe	His	Tyr	Leu	Val	Phe
				80					85					90
Asp	Leu	Val	Thr	Gly	Gly	Glu	Leu	Phe	Glu	Asp	Ile	Val	Ala	Arg
				95					100					105
Glu	Tyr	Tyr	Ser	Glu	Ala	Asp	Ala	Ser	His	Cys	Ile	Gln	Gln	Ile
				110					115					120
Leu	Glu	Ala	Val	Leu	His	Cys	His	Gln	Met	Gly	Val	Val	His	Arg
				125					130					135
Asp	Leu	Lys	Pro	Glu	Asn	Leu	Leu	Leu	Ala	Ser	Lys	Cys	Lys	Gly
				140					145					150
Ala	Ala	Val	Lys	Leu	Ala	Asp	Phe	Gly	Leu	Ala	Ile	Glu	Val	Gln
				155					160					165
Gly	Asp	Gln	Gln	Ala	Trp	Phe	Gly	Phe	Ala	Gly	Ihr	Pro	Gly	Tyr
				170					175					180
Leu	Ser	Pro	Glu	Val	Leu	Arg	Lys	Glu	Ala	Tyr	Gly	Lys	Pro	Val
				185					190					195
Asp	Ile	Trp	Ala	Cys	Gly	Val	Ile	Leu	Tyr	Ile	Leu	Leu	Val	Gly
				200					205					210
Tyr	Pro	Pro	Phe	Trp	Asp	Glu	Asp	Gln	His	Lys	Leu	Tyr	Gln	Gln
				215					220					225
Ile	Lys	Ala	Gly	Ala	Tyr	Asp	Phe	Pro	Ser	Pro	Glu	Trp	Asp	Thr
				230					235					240
Val	Thr	Pro	Glu	Ala	Lys	Asn	Leu	Ile	Asn	Gln	Met	Leu	Thr	Ile
				245					250					255
Asn	Pro	Ala	Lys	Arg	Ile	Thr	Ala	His	Glu	Ala	Leu	Lys	His	Pro
				260					265					270
Trp	Val	Cys	Gln	Arg	Ser	Thr	Val	Ala	Ser	Met	Met	His	Arg	Gln
				275					280					285
Glu	Thr	Val	Glu	Cys	Leu	Lys	Lys	Phe	Asn	Ala	Arg	Arg	Lys	Leu
				290					295					300
Lys	Gly	Ala	Ile	Leu	Thr	Thr	Met	Leu	Ala	Thr	Arg	Asn	Phe	Ser
				305					310					315
Ala	Ala	Lys	Ser	Leu	Leu	Asn	Lys	Lys	Ala	Asp	Gly	Val	Lys	Pro
				320					325					330
His	Thr	Asn	Ser	Thr	Lys	Asn	Ser	Ala	Ala	Ala	Thr	Ser	Pro	Lys
				335					340					345
Gly	Thr	Leu	Pro	Pro	Ala	Ala	Leu	Glu	Ser	Ser	Asp	Ser	Ala	Asn
				350					355					360
Thr	Thr	Ile	Glu	Asp	Glu	Asp	Ala	Lys	Ala	Arg	Lys	Gln	Glu	Ile
				365					370					375
Ile	Lys	Thr	Thr	Glu	Gln	Leu	Ile	Glu	Ala	Val	Asn	Asn	Gly	Asp
				380					385					390
Phe	Glu	Ala	Tyr	Ala	Lys	Ile	Cys	Asp	Pro	Gly	Leu	Thr	Ser	Phe
				395					400					405
Glu	Pro	Glu	Ala	Leu	Gly	Asn	Leu	Val	Glu	Gly	Met	Asp	Phe	His
				410					415					420
Arg	Phe	Tyr	Phe	Glu	Asn	Leu	Leu	Ala	Lys	Asn	Ser	Lys	Pro	Ile
				425					430					435
His	Thr	Thr	Ile	Leu	Asn	Pro	His	Val	His	Val	Ile	Gly	Glu	Asp
				440					445					450
Ala	Ala	Cys	Ile	Ala	Tyr	Ile	Arg	Leu	Thr	Gln	Tyr	Ile	Asp	Gly
				455					460					465
Gln	Gly	Arg	Pro	Arg	Thr	Ser	Gln	Ser	Glu	Glu	Thr	Arg	Val	Trp
				470					475					480
His	Arg	Arg	Asp	Gly	Lys	Trp	Gln	Asn	Val	His	Phe	His	Cys	Ser
				485					490					495
Gly	Ala	Pro	Val	Ala	Pro	Leu	Gln							
				500										

<210> 19

<211> 433

PF-0565 USN

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1512656

<400> 19

Met	Thr	Gly	Glu	Ala	Gln	Ala	Gly	Arg	Lys	Arg	Ser	Arg	Ala	Arg
1				5					10					15
Pro	Glu	Gly	Thr	Glu	Pro	Val	Arg	Arg	Glu	Arg	Thr	Gln	Pro	Gly
				20					25					30
Leu	Gly	Pro	Gly	Arg	Ala	Arg	Ala	Met	Ala	Ala	Glu	Ala	Thr	Ala
				35					40					45
Val	Ala	Gly	Ser	Gly	Ala	Val	Gly	Gly	Cys	Leu	Ala	Lys	Asp	Gly
				50					55					60
Leu	Gln	Gln	Ser	Lys	Cys	Pro	Asp	Thr	Thr	Pro	Lys	Arg	Arg	Arg
				65					70					75
Ala	Ser	Ser	Leu	Ser	Arg	Asp	Ala	Glu	Arg	Arg	Ala	Tyr	Gln	Trp
				80					85					90
Cys	Arg	Glu	Tyr	Leu	Gly	Gly	Ala	Trp	Arg	Arg	Val	Gln	Pro	Glu
				95					100					105
Glu	Leu	Arg	Val	Tyr	Pro	Val	Ser	Gly	Gly	Leu	Ser	Asn	Leu	Leu
				110					115					120
Phe	Arg	Cys	Ser	Leu	Pro	Asp	His	Leu	Pro	Ser	Val	Gly	Glu	Glu
				125					130					135
Pro	Arg	Glu	Val	Leu	Leu	Arg	Leu	Tyr	Gly	Ala	Ile	Leu	Gln	Gly
				140					145					150
Val	Asp	Ser	Leu	Val	Leu	Glu	Ser	Val	Met	Phe	Ala	Ile	Leu	Ala
				155					160					165
Glu	Arg	Ser	Leu	Gly	Pro	Gln	Leu	Tyr	Gly	Val	Phe	Pro	Glu	Gly
				170					175					180
Arg	Leu	Glu	Gln	Tyr	Ile	Pro	Ser	Arg	Pro	Leu	Lys	Thr	Gln	Glu
				185					190					195
Leu	Arg	Glu	Pro	Val	Leu	Ser	Ala	Ala	Ile	Ala	Thr	Lys	Met	Ala
				200					205					210
Gln	Phe	His	Gly	Met	Glu	Met	Pro	Phe	Thr	Lys	Glu	Pro	His	Trp
				215					220					225
Leu	Phe	Gly	Thr	Met	Glu	Arg	Tyr	Leu	Lys	Gln	Ile	Gln	Asp	Leu
				230					235					240
Pro	Pro	Thr	Gly	Leu	Pro	Glu	Met	Asn	Leu	Leu	Glu	Met	Tyr	Ser
				245					250					255
Leu	Lys	Asp	Glu	Met	Gly	Asn	Leu	Arg	Lys	Leu	Leu	Glu	Ser	Thr
				260					265					270
Pro	Ser	Pro	Val	Val	Phe	Cys	His	Asn	Asp	Ile	Gln	Glu	Gly	Asn
				275					280					285
Ile	Leu	Leu	Leu	Ser	Glu	Pro	Glu	Asn	Ala	Asp	Ser	Leu	Met	Leu
				290					295					300
Val	Asp	Phe	Glu	Tyr	Ser	Ser	Tyr	Asn	Tyr	Arg	Gly	Phe	Asp	Ile
				305					310					315
Gly	Asn	His	Phe	Cys	Glu	Trp	Val	Tyr	Asp	Tyr	Thr	His	Glu	Glu
				320					325					330
Trp	Pro	Phe	Tyr	Lys	Ala	Arg	Pro	Thr	Asp	Tyr	Pro	Thr	Gln	Glu
				335					340					345
Gln	Gln	Leu	His	Phe	Ile	Arg	His	Tyr	Leu	Ala	Glu	Ala	Lys	Lys
				350					355					360
Gly	Glu	Thr	Leu	Ser	Gln	Glu	Glu	Gln	Arg	Lys	Leu	Glu	Glu	Asp
				365					370					375
Leu	Leu	Val	Glu	Val	Ser	Arg	Tyr	Ala	Leu	Ala	Ser	His	Phe	Phe
				380					385					390
Trp	Gly	Leu	Trp	Ser	Ile	Leu	Gln	Ala	Ser	Met	Ser	Thr	Ile	Glu
				395					400					405
Phe	Gly	Tyr	Leu	Asp	Tyr	Ala	Gln	Ser	Arg	Phe	Gln	Phe	Tyr	Phe
				410					415					420
Gln	Gln	Lys	Gly	Gln	Leu	Thr	Ser	Val	His	Ser	Ser	Ser		
				425					430					

<210> 20
 <211> 527
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2098635

<400> 20

Met	Ser	Leu	Cys	Gly	Ala	Arg	Ala	Asn	Ala	Lys	Met	Met	Ala	Ala	1	5	10	15
Tyr	Asn	Gly	Gly	Thr	Ser	Ala	Ala	Ala	Ala	Gly	His	His	His	His	20	25	30	35
His	His	His	His	Leu	Pro	His	Leu	Pro	Pro	Pro	His	Leu	Leu	His	40	45	50	55
His	His	His	Pro	Gln	His	His	Leu	His	Pro	Gly	Ser	Ala	Ala	Ala	60	65	70	75
Val	His	Pro	Val	Gln	Gln	His	Thr	Ser	Ser	Ala	Ala	Ala	Ala	Ala	80	85	90	95
Gln	Pro	Tyr	Phe	Pro	Ser	Pro	Ala	Pro	Gly	Gln	Ala	Pro	Gly	Pro	100	105	110	115
Ala	Ala	Ala	Ala	Pro	Ala	Gln	Val	Gln	Ala	Ala	Ala	Ala	Ala	Thr	120	125	130	135
Val	Lys	Ala	His	His	His	Gln	His	Ser	His	His	Pro	Gln	Gln	Gln	140	145	150	155
Leu	Asp	Ile	Glu	Pro	Asp	Arg	Pro	Ile	Gly	Tyr	Gly	Ala	Phe	Gly	160	165	170	175
Val	Val	Trp	Ser	Val	Thr	Asp	Pro	Arg	Asp	Gly	Lys	Arg	Val	Ala	180	185	190	195
Leu	Lys	Lys	Met	Pro	Asn	Val	Phe	Gln	Asn	Leu	Val	Ser	Cys	Lys	200	205	210	215
Arg	Val	Phe	Arg	Glu	Leu	Lys	Met	Leu	Cys	Phe	Phe	Lys	His	Asp	220	225	230	235
Asn	Val	Leu	Ser	Ala	Leu	Asp	Ile	Leu	Gln	Pro	Pro	His	Ile	Asp	240	245	250	255
Tyr	Phe	Glu	Glu	Ile	Tyr	Val	Val	Thr	Glu	Leu	Met	Gln	Ser	Asp	260	265	270	275
Leu	His	Lys	Ile	Ile	Val	Ser	Pro	Gln	Pro	Leu	Ser	Ser	Asp	His	280	285	290	295
Val	Lys	Val	Phe	Leu	Tyr	Gln	Ile	Leu	Arg	Gly	Leu	Lys	Tyr	Leu	300	305	310	315
His	Ser	Ala	Gly	Ile	Leu	His	Arg	Asp	Ile	Lys	Pro	Gly	Asn	Leu	320	325	330	335
Leu	Val	Asn	Ser	Asn	Cys	Val	Leu	Lys	Ile	Cys	Asp	Phe	Gly	Leu	340	345	350	355
Ala	Arg	Val	Glu	Glu	Leu	Asp	Glu	Ser	Arg	His	Met	Thr	Gln	Glu	360	365	370	375
Val	Val	Thr	Gln	Tyr	Tyr	Arg	Ala	Pro	Glu	Ile	Leu	Met	Gly	Ser	380	385	390	395
Arg	His	Tyr	Ser	Asn	Ala	Ile	Asp	Ile	Trp	Ser	Val	Gly	Cys	Ile	400	405	410	415
Phe	Ala	Glu	Leu	Leu	Gly	Arg	Arg	Ile	Leu	Phe	Gln	Ala	Gln	Ser	420	425	430	435
Pro	Ile	Gln	Gln	Leu	Asp	Leu	Ile	Thr	Asp	Leu	Leu	Gly	Thr	Pro	440	445	450	455
Ser	Leu	Glu	Ala	Met	Arg	Thr	Ala	Cys	Glu	Gly	Ala	Lys	Ala	His	460	465	470	475
Ile	Leu	Arg	Gly	Pro	His	Lys	Gln	Pro	Ser	Leu	Pro	Val	Leu	Tyr	480	485	490	495
Thr	Leu	Ser	Ser	Gln	Ala	Thr	His	Glu	Ala	Val	His	Leu	Leu	Cys	500	505	510	515
Arg	Met	Leu	Val	Phe	Asp	Pro	Ser	Lys	Arg	Ile	Ser	Ala	Lys	Asp	520	525	530	535
Ala	Leu	Ala	His	Pro	Tyr	Leu	Asp	Glu	Gly	Arg	Leu	Arg	Tyr	His	540	545	550	555

Thr Cys Met Cys	425	Thr Ser Thr Gly Arg Val	430	435
Lys Cys Cys Phe Ser	440	Thr Ser Thr Gly Arg Val	445	450
Tyr Thr Ser Asp Phe	455	Asn Pro Lys Phe Asp Asp	460	465
Glu Pro Val Thr	470	Arg Gln Val Lys Glu Ile	475	480
Asn Leu Ser Ser Val	485	Lys Gly Asn Arg Val Pro	490	495
Ile His Gln Phe Ile	500	Phe Lys Ser Phe Ile Ser	505	510
Leu Cys Ile Asn Pro	515	Pro Pro Ser Pro Leu Val	520	525
Gln Pro Ser Glu Met				
Trp Glu				

<210> 21
 <211> 322
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2446646

<400> 21

Met Glu Gly Ile Ser	Asn Phe Lys Thr Pro	Ser Lys Leu Ser Glu
1 5	10	15
Lys Lys Lys Ser Val	Leu Cys Ser Thr Pro	Tnr Ile Asn Ile Pro
20	25	30
Ala Ser Pro Phe Met	Gln Lys Leu Gly Phe	Gly Thr Gly Val Asn
35	40	45
Val Tyr Leu Met Lys	Arg Ser Pro Arg Gly	Ileu Ser His Ser Pro
50	55	60
Trp Ala Val Lys Lys	Ile Asn Pro Ile Cys	Asn Asp His Tyr Arg
65	70	75
Ser Val Tyr Gln Lys	Arg Leu Met Asp Glu	Ala Lys Ile Leu Lys
80	85	90
Ser Leu His His Pro	Asn Ile Val Gly Tyr	Arg Ala Phe Thr Glu
95	100	105
Ala Asn Asp Gly Ser	Leu Cys Leu Ala Met	Glu Tyr Gly Gly Glu
110	115	120
Lys Ser Leu Asn Asp	Leu Ile Glu Glu Arg	Tyr Lys Ala Ser Gln
125	130	135
Asp Pro Phe Pro Ala	Ala Ile Ile Leu Lys	Val Ala Leu Asn Met
140	145	150
Ala Arg Gly Leu Lys	Tyr Leu His Gln Glu	Lys Lys Leu Leu His
155	160	165
Gly Asp Ile Lys Ser	Ser Asn Val Val Ile	Lys Gly Asp Phe Glu
170	175	180
Thr Ile Lys Ile Cys	Asp Val Gly Val Ser	Leu Pro Leu Asp Glu
185	190	195
Asn Met Thr Val Thr	Asp Pro Glu Ala Cys	Tyr Ile Gly Thr Glu
200	205	210
Pro Trp Lys Pro Lys	Glu Ala Val Glu Asn	Gly Val Ile Thr
215	220	225
Asp Lys Ala Asp Ile	Phe Ala Phe Gly Leu	Thr Leu Trp Glu Met
230	235	240
Met Thr Leu Ser Ile	Pro His Ile Asn Leu	Ser Asn Asp Asp Asp
245	250	255
Asp Glu Asp Lys Thr	Phe Asp Glu Ser Asp	Phe Asp Asp Glu Ala
260	265	270
Tyr Tyr Ala Ala Leu	Gly Thr Arg Pro Pro	Ile Asn Met Glu Glu
275	280	285
Leu Asp Glu Ser Tyr	Gln Lys Val Ile Glu	Leu Phe Ser Val Cys
290	295	300
Thr Asn Glu Asp Pro	Lys Asp Arg Pro Ser	Ala Ala His Ile Val

305
Glu Ala Leu Glu Thr Asp Val
320

310

315

<210> 22
<211> 802
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2764911

<400> 22

Met	Glu	Glu	Glu	Gly	Gly	Ser	Ser	Gly	Gly	Ala	Ala	Gly	Thr	Ser	1	5	10	15
Ala	Asp	Gly	Gly	Asp	Gly	Gly	Glu	Gln	Leu	Leu	Thr	Val	Lys	His	20	25	30	35
Glu	Leu	Arg	Thr	Ala	Asn	Leu	Thr	Gly	His	Ala	Glu	Lys	Val	Gly	40	45	50	55
Ile	Glu	Asn	Phe	Glu	Leu	Leu	Lys	Val	Leu	Gly	Thr	Gly	Ala	Tyr	60	65	70	75
Gly	Lys	Val	Phe	Leu	Val	Arg	Lys	Ile	Ser	Gly	His	Asp	Thr	Gly	80	85	90	95
Lys	Leu	Tyr	Ala	Met	Lys	Val	Leu	Lys	Lys	Ala	Thr	Ile	Val	Gln	100	105	110	115
Lys	Ala	Lys	Thr	Thr	Glu	His	Thr	Arg	Thr	Glu	Arg	Gln	Val	Leu	120	125	130	135
Glu	His	Ile	Arg	Gln	Ser	Pro	Phe	Leu	Val	Thr	Leu	His	Tyr	Ala	140	145	150	155
Phe	Gln	Thr	Glu	Thr	Lys	Leu	His	Leu	Ile	Leu	Asp	Tyr	Ile	Asn	160	165	170	175
Gly	Gly	Glu	Leu	Phe	Thr	His	Leu	Ser	Gln	Arg	Glu	Arg	Phe	Thr	180	185	190	195
Glu	His	Glu	Val	Gln	Ile	Tyr	Val	Gly	Glu	Ile	Val	Leu	Ala	Leu	200	205	210	215
Glu	His	Leu	His	Lys	Leu	Gly	Ile	Ile	Tyr	Arg	Asp	Ile	Lys	Leu	220	225	230	235
Glu	Asn	Ile	Leu	Leu	Asp	Ser	Asn	Gly	His	Val	Val	Leu	Thr	Asp	240	245	250	255
Phe	Gly	Leu	Ser	Lys	Glu	Phe	Val	Ala	Asp	Glu	Thr	Glu	Arg	Ala	260	265	270	275
Tyr	Ser	Phe	Cys	Gly	Thr	Ile	Glu	Tyr	Met	Ala	Pro	Asp	Ile	Val	280	285	290	295
Arg	Gly	Gly	Asp	Ser	Gly	His	Asp	Lys	Ala	Val	Asp	Trp	Trp	Ser	300	305	310	315
Leu	Gly	Val	Leu	Met	Tyr	Glu	Leu	Leu	Thr	Gly	Ala	Ser	Pro	Phe	320	325	330	335
Thr	Val	Asp	Gly	Glu	Lys	Asn	Ser	Gln	Ala	Glu	Ile	Ser	Arg	Arg	340	345	350	355
Ile	Leu	Lys	Ser	Glu	Pro	Pro	Tyr	Pro	Gln	Glu	Met	Ser	Ala	Leu	360	365	370	375
Ala	Lys	Asp	Leu	Ile	Gln	Arg	Leu	Leu	Met	Lys	Asp	Pro	Lys	Lys	380	385	390	395
Arg	Leu	Gly	Cys	Gly	Pro	Arg	Asp	Ala	Asp	Glu	Ile	Lys	Glu	His	400	405	410	415
Leu	Phe	Phe	Gln	Lys	Ile	Asn	Trp	Asp	Asp	Leu	Ala	Ala	Lys	Lys	420	425	430	435
Val	Pro	Ala	Pro	Phe	Lys	Pro	Val	Ile	Arg	Asp	Glu	Leu	Asp	Val	440	445	450	455
Ser	Asn	Phe	Ala	Glu	Glu	Phe	Thr	Glu	Met	Asp	Pro	Thr	Tyr	Ser	460	465	470	475
Pro	Ala	Ala	Leu	Pro	Gln	Ser	Ser	Glu	Lys	Leu	Phe	Gln	Gly	Tyr	480	485	490	495
Ser	Phe	Val	Ala	Pro	Ser	Ile	Leu	Phe	Lys	Arg	Asn	Ala	Ala	Val	500	505	510	515
Ile	Asp	Pro	Leu	Gln	Phe	His	Met	Gly	Val	Glu	Arg	Pro	Gly	Val	520	525	530	535

Thr Asn Val Ala	395	Arg Ser Ala Met Met	400	Lys Asp Ser Pro Phe	405
	410		415		420
Gln His Tyr Asp	425	Leu Asp Leu Lys Asp	430	Lys Pro Leu Gly Glu	435
Ser Phe Ser Ile	440	Cys Arg Lys Cys Val	445	His Lys Lys Ser Asn	450
Ala Phe Ala Val	455	Lys Ile Ile Ser Lys	460	Arg Met Glu Ala Asn	465
Gln Lys Glu Ile	470	Thr Ala Leu Glu Leu	475	Cys Glu Gly His Pro	480
Ile Val Lys Leu	485	His Glu Val Phe His	490	Asp Gln Leu His Thr	495
Leu Val Met Glu	500	Leu Leu Asn Gly Gly	505	Glu Leu Phe Glu Arg	510
Lys Lys Lys Lys	515	His Phe Ser Glu Thr	520	Glu Ala Ser Tyr Ile	525
Arg Lys Leu Val	530	Ser Ala Val Ser His	535	Met His Asp Val Gly	540
Val His Arg Asp	545	Leu Lys Pro Glu Asn	550	Leu Leu Phe Thr Asp	555
Asn Asp Asn Leu	560	Glu Ile Lys Ile Ile	565	Asp Phe Gly Phe Ala	570
Leu Lys Pro Pro	575	Asp Asn Gln Pro Leu	580	Lys Thr Pro Cys Phe	585
Leu His Tyr Ala	590	Ala Pro Glu Leu Leu	595	Asn Gln Asn Gly Tyr	600
Glu Ser Cys Asp	605	Leu Trp Ser Leu Gly	610	Val Ile Leu Tyr Thr	615
Leu Ser Gly Gln	620	Val Pro Phe Gln Ser	625	His Asp Arg Ser Leu	630
Cys Thr Ser Ala	635	Val Glu Ile Met Lys	640	Lys Ile Lys Lys Gly	645
Phe Ser Phe Glu	650	Gly Glu Ala Trp Lys	655	Asn Val Ser Gln Glu	660
Lys Asp Leu Ile	665	Gln Gly Leu Leu Thr	670	Val Asp Pro Asn Lys	675
Leu Lys Met Ser	680	Gly Leu Arg Tyr Asn	685	Glu Trp Leu Gln Asp	690
Ser Gln Leu Ser	695	Ser Asn Pro Leu Met	700	Thr Pro Asp Ile Leu	705
Ser Ser Gly Ala	710	Ala Val His Thr Cys	715	Val Lys Ala Thr Phe	720
Ala Phe Asn Lys	725	Tyr Lys Arg Glu Gly	730	Phe Cys Leu Gln Asn	735
Asp Lys Ala Pro	740	Leu Ala Lys Arg Arg	745	Lys Met Lys Lys Thr	750
Thr Ser Thr Glu	755	Thr Arg Ser Ser Ser	760	Glu Ser Ser His	765
Ser Ser Ser His	770	Ser His Gly Lys Thr	775	Thr Pro Thr Lys Thr	780
Gln Pro Ser Asn	785	Pro Ala Asp Ser Asn	790	Asn Pro Glu Thr Leu	795
Gln Phe Ser Asp	800	Ser Val Ala			

<210> 23

<211> 641

<212> PRT

<213> Homo sapiens

<330>

<221> misc_feature

<223> Incyte ID No: 3013946

<400> 23

Met Ala Thr Thr Val Thr Cys Thr Arg Phe Thr Asp Glu Tyr Gln

1	5	10	15
Leu Tyr Glu Asp Ile	Gly Lys Gly Ala Phe	Ser Val Val Arg Arg	
20	25	30	
Cys Val Lys Leu Cys	Thr Gly His Glu Tyr	Ala Ala Lys Ile Ile	
35	40	45	
Asn Thr Lys Lys Leu	Ser Ala Arg Asp His	Gln Lys Leu Glu Arg	
50	55	60	
Glu Ala Arg Ile Cys	Arg Leu Leu Lys His	Ser Asn Ile Val Arg	
65	70	75	
Leu His Asp Ser Ile	Ser Glu Glu Gly Phe	His Tyr Leu Val Phe	
80	85	90	
Asp Leu Val Thr Gly	Gly Glu Leu Phe Glu	Asp Ile Val Ala Arg	
95	100	105	
Glu Tyr Tyr Ser Glu	Ala Asp Ala Ser His	Cys Ile Gln Gln Ile	
110	115	120	
Leu Glu Ala Val Leu	His Cys His Gln Met	Gly Val Val His Arg	
125	130	135	
Asp Leu Lys Pro Glu	Asn Leu Leu Leu Ala	Ser Lys Cys Lys Gly	
140	145	150	
Ala Ala Val Lys Leu	Ala Asp Phe Gly Leu	Ala Ile Glu Val Gln	
155	160	165	
Gly Asp Gln Gln Ala	Trp Phe Gly Phe Ala	Gly Thr Pro Gly Tyr	
170	175	180	
Leu Ser Pro Glu Val	Leu Arg Lys Glu Ala	Tyr Gly Lys Pro Val	
185	190	195	
Asp Ile Trp Ala Cys	Gly Val Ile Leu Tyr	Ile Leu Leu Val Gly	
200	205	210	
Tyr Pro Pro Phe Trp	Asp Glu Asp Gln His	Lys Leu Tyr Gln Gln	
215	220	225	
Ile Lys Ala Gly Ala	Tyr Asp Phe Pro Ser	Pro Glu Trp Asp Thr	
230	235	240	
Val Thr Pro Glu Ala	Lys Asn Leu Ile Asn	Gln Met Leu Thr Ile	
245	250	255	
Asn Pro Ala Lys Arg	Ile Thr Ala His Glu	Ala Leu Lys His Pro	
260	265	270	
Trp Val Cys Gln Arg	Ser Thr Val Ala Ser	Met Met His Arg Gln	
275	280	285	
Glu Thr Val Glu Cys	Leu Lys Lys Phe Asn	Ala Arg Arg Lys Leu	
290	295	300	
Lys Gly Ala Ile Leu	Thr Thr Met Leu Ala	Thr Arg Asn Phe Ser	
305	310	315	
Ala Lys Ser Leu Leu	Asn Lys Lys Ala Asp	Gly Val Lys Pro Gln	
320	325	330	
Thr Asn Ser Thr Lys	Asn Ser Ala Ala Ala	Thr Ser Pro Lys Gly	
335	340	345	
Thr Leu Pro Pro Ala	Ala Leu Glu Pro Gln	Thr Thr Val Ile His	
350	355	360	
Asn Pro Val Asp Gly	Ile Lys Glu Ser Ser	Asp Ser Ala Asn Thr	
365	370	375	
Thr Ile Glu Asp Glu	Asp Ala Lys Ala Pro	Arg Val Pro Asp Ile	
380	385	390	
Leu Ser Ser Val Arg	Arg Gly Ser Gly Ala	Pro Glu Ala Glu Gly	
395	400	405	
Pro Leu Pro Cys Pro	Ser Pro Ala Pro Phe	Gly Pro Leu Pro Ala	
410	415	420	
Pro Ser Pro Arg Ile	Ser Asp Ile Leu Asn	Ser Val Arg Arg Gly	
425	430	435	
Ser Gly Thr Pro Glu	Ala Glu Gly Pro Leu	Ser Ala Gly Pro Pro	
440	445	450	
Pro Cys Leu Ser Pro	Ala Leu Leu Gly Pro	Leu Ser Ser Pro Ser	
455	460	465	
Pro Arg Ile Ser Asp	Ile Leu Asn Ser Val	Arg Arg Gly Ser Gly	
470	475	480	
Thr Pro Glu Ala Lys	Gly Pro Ser Pro Val	Gly Pro Pro Pro Cys	
485	490	495	
Pro Ser Pro Thr Ile	Pro Gly Pro Leu Pro	Thr Pro Ser Arg Lys	
500	505	510	

PF-0565 USN

Gln	Glu	Ile	Ile	Lys	Thr	Thr	Glu	Gln	Leu	Ile	Glu	Ala	Val	Asn
				515					520					525
Asn	Gly	Asp	Phe	Glu	Ala	Tyr	Ala	Lys	Ile	Cys	Asp	Pro	Gly	Leu
				530					535					540
Thr	Ser	Phe	Glu	Pro	Glu	Ala	Leu	Gly	Asn	Leu	Val	Glu	Gly	Met
				545					550					555
Asp	Phe	His	Arg	Phe	Tyr	Phe	Glu	Asn	Leu	Leu	Ala	Lys	Asn	Ser
				560					565					570
Lys	Pro	Ile	His	Thr	Thr	Ile	Leu	Asn	Pro	His	Val	His	Val	Ile
				575					580					585
Gly	Glu	Asp	Ala	Ala	Cys	Ile	Ala	Tyr	Ile	Arg	Leu	Thr	Gln	Tyr
				590					595					600
Ile	Asp	Gly	Gln	Gly	Arg	Pro	Arg	Thr	Ser	Gln	Ser	Glu	Glu	Thr
				605					610					615
Arg	Val	Trp	His	Arg	Arg	Asp	Gly	Lys	Trp	Gln	Asn	Val	His	Phe
				620					625					630
His	Cys	Ser	Gly	Ala	Pro	Val	Ala	Pro	Leu	Gln				
				635					640					

<210> 24

<211> 588

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 067967

<400> 24

Met	Gly	Gly	Thr	Ala	Arg	Gly	Pro	Gly	Arg	Lys	Asp	Ala	Gly	Pro
1				5					10					15
Pro	Gly	Ala	Gly	Leu	Pro	Pro	Gln	Gln	Arg	Arg	Leu	Gly	Asp	Gly
				20					25					30
Val	Tyr	Asp	Thr	Phe	Met	Met	Ile	Asp	Glu	Thr	Lys	Cys	Pro	Pro
				35					40					45
Cys	Ser	Asn	Val	Leu	Cys	Asn	Pro	Ser	Glu	Pro	Pro	Ser	Pro	Arg
				50					55					60
Arg	Leu	Asn	Met	Thr	Thr	Glu	Gln	Phe	Thr	Gly	Asp	His	Thr	Gln
				65					70					75
His	Phe	Leu	Asp	Gly	Gly	Glu	Met	Lys	Val	Glu	Gln	Leu	Phe	Gln
				80					85					90
Glu	Phe	Gly	Asn	Arg	Lys	Ser	Asn	Thr	Ile	Gln	Ser	Asp	Gly	Ile
				95					100					105
Ser	Asp	Ser	Glu	Lys	Cys	Ser	Pro	Thr	Val	Ser	Gln	Gly	Lys	Ser
				110					115					120
Ser	Asp	Cys	Leu	Asn	Thr	Val	Lys	Ser	Asn	Ser	Ser	Ser	Lys	Ala
				125					130					135
Pro	Lys	Val	Val	Pro	Leu	Thr	Pro	Glu	Gln	Ala	Leu	Lys	Gln	Tyr
				140					145					150
Lys	His	His	Leu	Thr	Ala	Tyr	Glu	Lys	Leu	Glu	Ile	Ile	Asn	Tyr
				155					160					165
Pro	Glu	Ile	Tyr	Phe	Val	Gly	Pro	Asn	Ala	Lys	Lys	Arg	His	Gly
				170					175					180
Val	Ile	Gly	Gly	Pro	Asn	Asn	Gly	Gly	Tyr	Asp	Asp	Ala	Asp	Gly
				185					190					195
Ala	Tyr	Ile	His	Val	Pro	Arg	Asp	His	Leu	Ala	Tyr	Arg	Tyr	Glu
				200					205					210
Val	Leu	Lys	Ile	Ile	Gly	Lys	Gly	Ser	Phe	Gly	Gln	Val	Ala	Arg
				215					220					225
Val	Tyr	Asp	His	Lys	Leu	Arg	Gln	Tyr	Val	Ala	Leu	Lys	Met	Val
				230					235					240
Arg	Asn	Glu	Lys	Arg	Phe	His	Arg	Gln	Ala	Ala	Glu	Glu	Ile	Arg
				245					250					255
Ile	Leu	Glu	His	Leu	Lys	Lys	Gln	Asp	Lys	Thr	Gly	Ser	Met	Asn
				260					265					270
Val	Ile	His	Met	Leu	Glu	Ser	Phe	Thr	Phe	Arg	Asn	His	Val	Cys
				275					280					285

Met	Ala	Phe	Glu	Leu	Leu	Ser	Ile	Asp	Leu	Tyr	Glu	Leu	Ile	Lys
				290					295					300
Lys	Asn	Lys	Phe	Gln	Gly	Phe	Ser	Val	Gln	Leu	Val	Arg	Lys	Phe
				305					310					315
Ala	Gln	Ser	Ile	Leu	Gln	Ser	Leu	Asp	Ala	Leu	His	Lys	Asn	Lys
				320					325					330
Ile	Ile	His	Cys	Asp	Leu	Lys	Pro	Glu	Asn	Ile	Leu	Leu	Lys	His
				335					340					345
His	Gly	Arg	Ser	Ser	Thr	Lys	Val	Ile	Asp	Phe	Gly	Ser	Ser	Cys
				350					355					360
Phe	Glu	Tyr	Gln	Lys	Leu	Tyr	Thr	Tyr	Ile	Gln	Ser	Arg	Phe	Tyr
				365					370					375
Arg	Ala	Pro	Glu	Ile	Ile	Leu	Gly	Ser	Arg	Tyr	Ser	Thr	Pro	Ile
				380					385					390
Asp	Ile	Trp	Ser	Phe	Gly	Cys	Ile	Leu	Ala	Glu	Leu	Leu	Thr	Gly
				395					400					405
Gln	Pro	Leu	Phe	Pro	Gly	Glu	Asp	Glu	Gly	Asp	Gln	Leu	Ala	Cys
				410					415					420
Met	Met	Glu	Leu	Leu	Gly	Met	Pro	Pro	Pro	Lys	Leu	Leu	Glu	Gln
				425					430					435
Ser	Lys	Arg	Ala	Lys	Tyr	Phe	Ile	Asn	Ser	Lys	Gly	Ile	Pro	Arg
				440					445					450
Tyr	Cys	Ser	Val	Thr	Thr	Gln	Ala	Asp	Gly	Arg	Val	Val	Leu	Val
				455					460					465
Gly	Gly	Arg	Ser	Arg	Arg	Gly	Lys	Lys	Arg	Gly	Pro	Pro	Gly	Ser
				470					475					480
Lys	Asp	Trp	Gly	Thr	Ala	Leu	Lys	Gly	Cys	Asp	Asp	Tyr	Leu	Phe
				485					490					495
Ile	Glu	Phe	Leu	Lys	Arg	Cys	Leu	His	Trp	Asp	Pro	Ser	Ala	Arg
				500					505					510
Leu	Thr	Pro	Ala	Gln	Ala	Leu	Arg	His	Pro	Trp	Ile	Ser	Lys	Ser
				515					520					525
Val	Pro	Arg	Pro	Lys	Thr	Thr	Ile	Asp	Lys	Val	Ser	Gly	Lys	Arg
				530					535					540
Val	Val	Asn	Pro	Ala	Ser	Ala	Phe	Gln	Gly	Leu	Gly	Ser	Lys	Leu
				545					550					555
Pro	Pro	Val	Val	Gly	Ile	Ala	Asn	Lys	Leu	Lys	Ala	Asn	Leu	Met
				560					565					570
Ser	Glu	Thr	Asn	Gly	Ser	Ile	Pro	Leu	Cys	Ser	Val	Leu	Pro	Lys
				575					580					585

Leu Ile Ser

<210> 25

<211> 389

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 346275

<400> 25

Met	Ser	Asp	Val	Cys	Ser	Ser	Gln	Arg	Ala	Glu	His	Glu	His	Leu
1				5					10					15
Pro	Gly	Leu	Val	Pro	Pro	Pro	Ser	Gly	Met	Gly	Val	Arg	Lys	Gly
				20					25					30
Ser	Ser	Pro	Leu	Lys	Ser	His	Pro	Cys	Arg	Glu	Lys	Ser	Val	Ser
				35					40					45
Asn	Arg	Arg	Ser	Gly	Lys	Thr	Ile	Val	Arg	Ser	Ala	Val	Glu	Glu
				50					55					60
Val	Arg	Thr	Ala	Gly	Leu	Phe	Arg	Ser	Gly	Phe	Ser	Glu	Glu	Lys
				65					70					75
Ala	Thr	Gly	Lys	Leu	Phe	Ala	Val	Lys	Cys	Ile	Pro	Lys	Lys	Ala
				80					85					90
Leu	Lys	Gly	Lys	Glu	Ser	Ser	Ile	Glu	Asn	Glu	Ile	Ala	Val	Leu
				95					100					105

Arg	Lys	Ile	Lys	His	Glu	Asn	Ile	Val	Ala	Leu	Glu	Asp	Ile	Tyr
				110					115					120
Glu	Ser	Pro	Asn	His	Leu	Tyr	Leu	Val	Met	Gln	Leu	Val	Ser	Gly
				125					130					135
Gly	Glu	Leu	Phe	Asp	Arg	Ile	Val	Glu	Lys	Gly	Phe	Tyr	Thr	Glu
				140					145					150
Lys	Asp	Ala	Ser	Thr	Leu	Ile	Arg	Gln	Val	Leu	Asp	Ala	Val	Tyr
				155					160					165
Tyr	Leu	His	Arg	Met	Gly	Ile	Val	His	Arg	Asp	Leu	Lys	Pro	Glu
				170					175					180
Asn	Leu	Leu	Tyr	Tyr	Ser	Gln	Asp	Glu	Glu	Ser	Lys	Ile	Met	Ile
				185					190					195
Ser	Asp	Phe	Gly	Leu	Ser	Lys	Met	Glu	Gly	Lys	Gly	Asp	Val	Met
				200					205					210
Ser	Thr	Ala	Cys	Gly	Thr	Pro	Gly	Tyr	Val	Ala	Pro	Glu	Val	Leu
				215					220					225
Ala	Gln	Lys	Pro	Tyr	Ser	Lys	Ala	Val	Asp	Cys	Trp	Ser	Ile	Gly
				230					235					240
Val	Ile	Ala	Tyr	Ile	Leu	Leu	Cys	Gly	Tyr	Pro	Pro	Phe	Tyr	Asp
				245					250					255
Glu	Asn	Asp	Ser	Lys	Leu	Phe	Glu	Gln	Ile	Leu	Lys	Ala	Glu	Tyr
				260					265					270
Glu	Phe	Asp	Ser	Pro	Tyr	Trp	Asp	Asp	Ile	Ser	Asp	Ser	Ala	Lys
				275					280					285
Asp	Phe	Ile	Arg	Asn	Leu	Met	Glu	Lys	Asp	Pro	Asn	Lys	Arg	Tyr
				290					295					300
Thr	Cys	Glu	Gln	Ala	Ala	Arg	His	Pro	Trp	Ile	Ala	Gly	Asp	Thr
				305					310					315
Ala	Leu	Asn	Lys	Asn	Ile	His	Glu	Ser	Val	Ser	Ala	Gln	Ile	Arg
				320					325					330
Lys	Asn	Phe	Ala	Lys	Ser	Lys	Trp	Arg	Gln	Ala	Phe	Asn	Ala	Thr
				335					340					345
Ala	Val	Val	Arg	His	Met	Arg	Lys	Leu	His	Leu	Gly	Ser	Ser	Leu
				350					355					360
Asp	Ser	Ser	Asn	Ala	Ser	Val	Ser	Ser	Ser	Leu	Ser	Leu	Ala	Ser
				365					370					375
Gln	Lys	Asp	Cys	Ala	Tyr	Val	Ala	Lys	Pro	Glu	Ser	Leu	Ser	
				380					385					

<210> 26

<211> 343

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 283746

<400> 26

Met	Ile	Gly	Glu	Glu	Ala	Met	Ile	Asn	Tyr	Glu	Asn	Phe	Leu	Lys
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Val	Gly	Glu	Lys	Ala	Gly	Ala	Lys	Cys	Lys	Gln	Phe	Phe	Thr	Ala
				20					25					30
Lys	Val	Phe	Ala	Lys	Leu	Leu	His	Thr	Asp	Ser	Tyr	Gly	Arg	Ile
				35					40					45
Ser	Ile	Met	Gln	Phe	Phe	Asn	Tyr	Val	Met	Arg	Lys	Val	Trp	Leu
				50					55					60
His	Gln	Thr	Arg	Ile	Gly	Leu	Ser	Leu	Tyr	Asp	Val	Ala	Gly	Gln
				65					70					75
Gly	Tyr	Leu	Arg	Glu	Ser	Asp	Leu	Glu	Asn	Tyr	Ile	Leu	Glu	Leu
				80					85					90
Ile	Pro	Thr	Leu	Pro	Gln	Leu	Asp	Gly	Leu	Glu	Lys	Ser	Phe	Tyr
				95					100					105
Ser	Phe	Tyr	Val	Cys	Thr	Ala	Val	Arg	Lys	Phe	Phe	Phe	Phe	Leu
				110					115					120
Asp	Pro	Leu	Arg	Thr	Gly	Lys	Ile	Lys	Ile	Gln	Asp	Ile	Leu	Ala
				125					130					135

Cys	Ser	Phe	Leu	Asp	Asp	Leu	Leu	Glu	Leu	Arg	Asp	Glu	Glu	Leu
				140						145				150
Ser	Lys	Glu	Ser	Gln	Glu	Thr	Asn	Trp	Phe	Ser	Ala	Pro	Ser	Ala
				155					160					165
Leu	Arg	Val	Tyr	Gly	Gln	Tyr	Leu	Asn	Leu	Asp	Lys	Asp	His	Asn
				170					175					180
Gly	Met	Leu	Ser	Lys	Glu	Glu	Leu	Ser	Arg	Tyr	Gly	Thr	Ala	Thr
				185					190					195
Met	Thr	Asn	Val	Phe	Leu	Asp	Arg	Val	Phe	Gln	Glu	Cys	Leu	Thr
				200					205					210
Tyr	Asp	Gly	Glu	Met	Asp	Tyr	Lys	Thr	Tyr	Leu	Asp	Phe	Val	Leu
				215					220					225
Ala	Leu	Glu	Asn	Arg	Lys	Glu	Pro	Ala	Ala	Leu	Gln	Tyr	Ile	Phe
				230					235					240
Lys	Leu	Leu	Asp	Ile	Glu	Asn	Lys	Gly	Tyr	Leu	Asn	Val	Phe	Ser
				245					250					255
Leu	Asn	Tyr	Phe	Phe	Arg	Ala	Ile	Gln	Glu	Leu	Met	Lys	Ile	His
				260					265					270
Gly	Gln	Asp	Pro	Val	Ser	Phe	Gln	Asp	Val	Lys	Asp	Glu	Ile	Phe
				275					280					285
Asp	Met	Val	Lys	Pro	Lys	Asp	Pro	Leu	Lys	Ile	Ser	Leu	Gln	Asp
				290					295					300
Leu	Ile	Asn	Ser	Asn	Gln	Gly	Asp	Thr	Val	Thr	Thr	Ile	Leu	Ile
				305					310					315
Asp	Leu	Asn	Gly	Phe	Trp	Thr	Tyr	Glu	Asn	Arg	Glu	Ala	Leu	Val
				320					325					330
Ala	Asn	Asp	Ser	Glu	Asn	Ser	Ala	Asp	Leu	Asp	Asp	Thr		
				335					340					

<210> 27
 <211> 134
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2696537

Met	Gly	Asn	Gly	Met	Asn	Lys	Ile	Leu	Pro	Gly	Leu	Tyr	Ile	Gly
1				5					10					15
Asn	Phe	Lys	Asp	Ala	Arg	Asp	Ala	Glu	Gln	Leu	Ser	Lys	Asn	Lys
				20					25					30
Val	Thr	His	Ile	Leu	Ser	Val	His	Asp	Ser	Ala	Arg	Pro	Met	Leu
				35					40					45
Glu	Gly	Val	Lys	Tyr	Leu	Cys	Ile	Pro	Ala	Ala	Asp	Ser	Pro	Ser
				50					55					60
Gln	Asn	Leu	Thr	Arg	His	Phe	Lys	Glu	Ser	Ile	Lys	Phe	Ile	His
				65					70					75
Glu	Cys	Arg	Leu	Arg	Gly	Glu	Ser	Cys	Leu	Val	His	Cys	Leu	Ala
				80					85					90
Gly	Val	Ser	Arg	Ser	Val	Thr	Leu	Val	Ile	Ala	Tyr	Ile	Met	Thr
				95					100					105
Val	Thr	Asp	Phe	Gly	Trp	Glu	Asp	Ala	Leu	His	Thr	Val	Arg	Ala
				110					115					120
Gly	Arg	Ser	Cys	Ala	Asn	Pro	Asn	Val	Gly	Phe	Gln	Arg	Gln	Leu
				125					130					135
Gln	Glu	Phe	Glu	Lys	His	Glu	Val	His	Gln	Tyr	Arg	Gln	Trp	Leu
				140					145					150
Lys	Glu	Glu	Tyr	Gly	Glu	Ser	Pro	Leu	Gln	Asp	Ala	Glu	Glu	Ala
				155					160					165
Lys	Asn	Ile	Leu	Ala	Ala	Pro	Gly	Ile	Leu	Lys	Phe	Trp	Ala	Phe
				170					175					180
Leu	Arg	Arg	Leu											

<210> 28

PF-0565 USN

<211> 118
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 619292

<400> 28
Met Gly Leu Ile Asp Gly Met His Thr His Leu Gly Ala Pro Gly
1 5 10 15
Leu Tyr Ile Gln Thr Leu Leu Pro Gly Ser Pro Ala Ala Ala Asp
20 25 30
Gly Arg Leu Ser Leu Gly Asp Arg Ile Leu Glu Val Asn Gly Ser
35 40 45
Ser Leu Leu Gly Leu Gly Tyr Leu Arg Ala Val Asp Leu Ile Arg
50 55 60
His Gly Gly Lys Lys Met Arg Phe Leu Val Ala Lys Ser Asp Val
65 70 75
Gly Lys Gln Pro Arg Arg Ser Ile Ser Ala Arg Pro Leu Ser Arg
80 85 90
Gly Ala Ala Arg Thr Pro Pro Gln Ala Arg His Pro Val Pro Pro
95 100 105
Gly Asp Thr Gly Leu Pro Pro Ala Phe Val Pro Val Leu
110 115

<210> 29
<211> 356
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2054049

<400> 29
Met Val Gly Val Ser Gly Lys Arg Ser Lys Glu Asp Glu Lys Tyr
1 5 10 15
Leu Gln Ala Ile Met Asp Ser Asn Ala Gln Ser His Lys Ile Phe
20 25 30
Ile Phe Asp Ala Arg Pro Ser Val Asn Ala Val Ala Asn Lys Ala
35 40 45
Lys Gly Gly Gly Tyr Glu Ser Glu Asp Ala Tyr Gln Asn Ala Glu
50 55 60
Leu Val Phe Leu Asp Ile His Asn Ile His Val Met Arg Glu Ser
65 70 75
Leu Arg Lys Leu Lys Glu Ile Val Tyr Pro Asn Ile Glu Glu Thr
80 85 90
His Trp Leu Ser Asn Leu Glu Ser Thr His Trp Leu Glu His Ile
95 100 105
Lys Leu Ile Leu Ala Gly Ala Leu Arg Ile Ala Asp Lys Val Glu
110 115 120
Ser Gly Lys Thr Ser Val Val Val His Cys Ser Asp Gly Trp Asp
125 130 135
Arg Thr Ala Gln Leu Thr Ser Leu Ala Met Leu Met Leu Asp Gly
140 145 150
Tyr Tyr Arg Thr Ile Arg Gly Phe Glu Val Leu Val Glu Lys Glu
155 160 165
Trp Leu Ser Phe Gly His Arg Phe Gln Leu Arg Val Gly His Gly
170 175 180
Asp Lys Asn His Ala Asp Ala Asp Arg Ser Pro Val Phe Leu Gln
185 190 195
Phe Ile Asp Cys Val Trp Gln Met Thr Arg Gln Phe Pro Thr Ala
200 205 210
Phe Glu Phe Asn Glu Tyr Phe Leu Ile Thr Ile Leu Asp His Leu
215 220 225
Tyr Ser Cys Leu Phe Gly Thr Phe Leu Cys Asn Ser Glu Gln Gln

Arg Gly Lys Glu	230	Asn Leu Pro Lys Arg	235	Thr Val Ser Leu Trp	240
Tyr Ile Asn Ser	245	Gln Leu Glu Asp Phe	250	Thr Asn Pro Leu Tyr	255
Ser Tyr Ser Asn	260	His Val Leu Tyr Pro	265	Val Ala Ser Met Arg	270
Leu Glu Leu Trp	275	Val Gly Tyr Tyr Ile	280	Arg Trp Asn Pro Arg	285
Lys Pro Gln Glu	290	Pro Ile His Asn Arg	295	Tyr Lys Glu Leu Leu	300
Lys Arg Ala Glu	305	Leu Gln Lys Lys Val	310	Glu Glu Leu Gln Arg	315
Ile Ser Asn Arg	320	Ser Thr Ser Ser Ser	325	Glu Arg Ala Ser Ser	330
Ala Gln Cys Val	335	Thr Pro Val Gln Thr	340	Val Val	345
	350		355		

<210> 30

<211> 453

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2843910

<400> 30

Met Ala Gly Ala Gly	1	Gly Phe Gly Cys Pro	10	Ala Gly Gly Asn Asp	15
Phe Gln Trp Cys Phe	20	Ser Gln Val Lys Gly	25	Ala Ile Asp Glu Asp	30
Val Ala Glu Ala Asp	35	Ile Ile Ser Thr Val	40	Glu Phe Asn Tyr Ser	45
Gly Asp Leu Leu Ala	50	Thr Gly Asp Lys Gly	55	Gly Arg Val Val Ile	60
Phe Gln Arg Glu Gln	65	Glu Asn Lys Ser Arg	70	Pro His Ser Arg Gly	75
Glu Tyr Asn Val Tyr	80	Ser Thr Phe Gln Ser	85	His Glu Pro Glu Phe	90
Asp Tyr Leu Lys Ser	95	Leu Glu Ile Glu Glu	100	Lys Ile Asn Lys Ile	105
Arg Trp Leu Pro Gln	110	Gln Asn Ala Ala His	115	Phe Leu Leu Ser Thr	120
Asn Asp Lys Thr Ile	125	Lys Leu Trp Lys Ile	130	Ser Glu Arg Asp Lys	135
Arg Ala Glu Gly Tyr	140	Asn Leu Lys Asp Glu	145	Asp Gly Arg Leu Arg	150
Asp Pro Phe Arg Ile	155	Thr Ala Leu Arg Val	160	Pro Ile Leu Lys Pro	165
Met Asp Leu Met Val	170	Glu Ala Ser Pro Arg	175	Arg Ile Phe Ala Asn	180
Ala His Thr Tyr His	185	Ile Asn Ser Ile Ser	190	Val Asn Ser Asp His	195
Glu Thr Tyr Leu Ser	200	Ala Asp Asp Leu Arg	205	Ile Asn Leu Trp His	210
Leu Glu Ile Thr Asp	215	Arg Ser Phe Asn Ile	220	Val Asp Ile Lys Pro	225
Ala Asn Met Glu Glu	230	Leu Thr Glu Val Ile	235	Thr Ala Ala Glu Phe	240
His Pro His Gln Cys	245	Asn Val Phe Val Tyr	250	Ser Ser Ser Lys Gly	255
Thr Ile Arg Leu Cys	260	Asp Met Arg Ser Ser	265	Ala Leu Cys Asp Arg	270
His Ser Lys Phe Phe	275	Glu Glu Pro Glu Asp	280	Pro Ser Ser Arg Ser	285
Phe Phe Ser Glu Ile		Ile Ser Ser Ile Ser		Asp Val Lys Phe Ser	

	290		295		300
His Ser Gly Arg	Tyr Met Met Thr Arg	Asp Tyr Leu Ser Val	Lys		
	305		310		315
Val Trp Asp Leu	Asn Met Glu Ser Arg	Pro Val Glu Thr His	Gln		
	320		325		330
Val His Glu Tyr	Leu Arg Ser Lys Leu	Cys Ser Leu Tyr Glu	Asn		
	335		340		345
Asp Cys Ile Phe	Asp Lys Phe Glu Cys	Cys Trp Asn Gly Ser	Asp		
	350		355		360
Ser Ala Ile Met	Thr Gly Ser Tyr Asn	Asn Phe Phe Arg Met	Phe		
	365		370		375
Asp Arg Asp Thr	Arg Arg Asp Val Thr	Leu Glu Ala Ser Arg	Glu		
	380		385		390
Ser Ser Lys Pro	Arg Ala Ser Leu Lys	Pro Arg Lys Val Cys	Thr		
	395		400		405
Gly Gly Lys Arg	Arg Lys Asp Glu Ile	Ser Val Asp Ser Leu	Asp		
	410		415		420
Phe Asn Lys Lys	Ile Leu His Thr Ala	Trp His Pro Val Asp	Asn		
	425		430		435
Val Ile Ala Val	Ala Ala Thr Asn Asn	Leu Tyr Ile Phe Gln	Asp		
	440		445		450
Lys Ile Asn					

<210> 31
 <211> 1221
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 132240

<400> 31
 cttttctctgg aattttctata atggaaagtc cattagaaag tcagccctta gattcagata 60
 gaagcatcaa agaatcctct tttgaagaat caaatattga agatccactt attgtaaacac 120
 cagattgccaa agaaaagacc tcacccaaaag gtgtcgagaa ccctgctgta caagagagta 180
 accaaaaaat gttaggtcct cctttggagg tgctgaaaac gttagcctct aaaagaaatg 240
 ctgttgcttt tcgaagtttt aacagtcata ttaatgcac caataactca gaaccatcca 300
 gaatgaacat gacttcttta gatgcaatgg atatttcgtg tgccctacagt gggttcataac 360
 ccatggctat aaccctact caaaaaagaa gatcctgtat gccacatcag accccaaatc 420
 agatcaagtc gggaactcca taccgaactc cgaagagtggt gagaagaggg gtggcccccg 480
 ttgatgatgg gcgaattcta ggaaccccg actaccttgc acctgagctg ttactaggca 540
 gggcccatgg tcttgcggta gactggtggg cacttggagt ttgcttggtt gaatttctaa 600
 caggaattcc cccttttcaat gatgaaacac cacaacaagt attccagaat attctgaaaa 660
 gagatatccc ttggccagaa ggtgaagaaa agttatctga taatgctcaa agtgcagtag 720
 aaatactttt aaccattgat gatacaaaga gagctggaat gaaagagcta aaacgtcatc 780
 ctctcttcag tgatgtggac tgggaaaatc tgcagcatca gactatgcct ttcaccccc 840
 agccagatga tgaacacagat acctcctatt ttgaagccag gaatactgct cagcacctga 900
 ctgtatctgg atttagtctg tagcacaaaa attttccttt tagtctagcc ttgtgttata 960
 gaatgaactt gcataattat atactcctta atactagatt gatctaaggg ggaaagatca 1020
 ttatttaacc tagttcaatg tgcttttaaat gtacgttaca gctttcacag agttaaaaagg 1080
 ctgaaaggaa tatagtcagt aatttatctt aacctcaaaa ctgtatataa atcttcaaag 1140
 cttttttcat ttatttattt tgtttatttg actttatgaa aactgaagca tcaataaaat 1200
 tagaggacac taaaaaaaaa a 1221

<210> 32
 <211> 542
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2180116

<400> 32
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caagctgcag	tctccatcgc	gggcccgcgg	gccagggggc	agtccccggg	ggatgcagaa	120
gcggcacgcg	cgcgtcaccg	tcaagtatga	ccggcgggag	ctgcagcggc	ggctggacgt	180
ggagaagtgg	atcgacgggc	gcctggagga	gctgtaccgc	ggcatggagg	cagacatgcc	240
cgatgagatc	aacattgatg	aattgttgga	gttagagagt	gaagaggaga	gaagccggaa	300
aatccagggg	ctcctgaagt	catgtgggaa	acctgtcgag	gacttcatcc	aggagctgct	360
ggcaaagctt	caaggcctcc	acaggcagcc	cggcctccgc	cagccaagcc	cctcccacga	420
cggcagcctc	agccccctcc	aggaccgggc	cgggactgct	cacccctgac	cctcttgac	480
tctccctgcc	ccccggacgc	cgcccagctt	gcttgtgtat	aagttgtatt	taatggattc	540
tt						542

<210> 33

<211> 2778

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2197671

<220>

<221> unsure

<222> (1) ... (2778)

<223> a, t, c, g, or other

<400> 33

cgcgatcgt	cgcggcccgc	cgcgtcccgc	ccagggaagt	gccgtcctga	gcgccatggc	50
tcaactccc	gtgcagtcgg	gcctgcccg	catgcagAAC	ctaaaggcag	acccagaaga	120
gctttttaca	aaactagaga	aaattgggaa	gggtcccttt	ggagaggtgt	tcaaaggcat	180
tgacaatcgg	actcagaaag	tggttgccat	naagatcatt	gatctggaag	aagctgaaga	240
tgagatagag	gacattcaac	aagaaatcac	agtgtgtagt	cagtgtgaca	gtccatatgt	300
aaccaaatat	tatggatcct	atctgaagga	tacaaaatta	tgataataaa	tggatatctt	360
tggtggaggg	cccgcaactag	atctattaga	acctggccga	ttagatgaaa	cccagatcgc	420
tactatatta	agagaaatac	tgaaaggact	cgattatctc	cattcggaga	agaaaatcca	480
cagagacatt	aaagcggcca	acgtcctgct	gtgtgagcat	ggcgaggtga	agctggcgga	540
ctttggcgtg	gctggccagc	tgacagacac	ccagatcaaa	aggaacacct	tcgtgggcac	600
cccattctgg	atggcaccgc	aggtcacaa	acagtcggcc	tatgactcga	aggcagacat	660
ctggctccct	ggcataacag	ctattgaact	tgcaagaggg	gaaccacctc	attcctgact	720
gcaccccatg	aaagttttat	tcttcattcc	aaagaaacac	ccaccgacgt	tggaaggaaa	780
ctacagtaaa	cccccaagg	agtttgtgga	ggcctgtttg	aataaggagc	cgagctttag	840
acccactgct	aaggagtatt	tgaagcaca	gtttatacta	cgcaatgcaa	agaaaacttc	900
ctaacttgacc	gagctcatcg	acaggtacaa	gagatggaa	gccgagcaga	gccatgacga	960
ctcgagctcc	gaggattccg	acgcggaaac	agatggccaa	gcctcggggg	gcagtgattc	1020
tggggactgg	atcttcacaa	tccgagaaaa	agatcccaag	aatctcgaga	atggagctct	1080
tcagccatcg	gacttgga	gaaataagat	gaaagacatc	ccaaagaggc	ctttctctca	1140
gtgtttatct	acaattatct	ctcctctgtt	tcagaggtg	aaggagaaga	gccaggcgtg	1200
cggagggaac	ttgggggtcca	ttgaagagct	gcgagggycc	atctacctag	cggaggaggc	1260
gtgcectggc	atctccgaca	ccatgggtgg	ccagctcgtg	cagcggctcc	agagatactc	1320
tctaagtggg	ggaggaaact	catcccactg	aaattccctt	ggcatttggg	gttttgtttt	1380
tcttttttcc	cttcttcac	ctcctccctt	tttaaaagtc	aacgagagcc	ttcgtgact	1440
ccaccgaaga	ggtgcgccac	tgggagccac	cccagtgcca	ggcgcccgtc	cagggacaca	1500
cacagtcttc	actgtgctgc	agccagatga	agtctctcag	atgggtgggg	agggtcagct	1560
ccttccagcg	atcattttat	tttattttat	tacttttgtt	tttaatttta	accatagtgc	1620
acatattcca	ggaaagtgtc	tttaaaaaa	aaaacaaacc	ctgaaatgta	tatttgggat	1680
tatgataagg	caactaaaga	catgaaacct	caggtatcct	gctttaagtt	gataactccc	1740
tctgggagct	ggagaatcgc	tctgggtggat	gggtgtacag	atttgtatat	aatgtcattt	1800
ttacggaaac	cctttcggcg	tgcataagga	atcactgtgt	acaaactggc	caagtgtctc	1860
tgtagataac	gtcagtggag	taaatattcg	acaggccata	acttgagtct	attgccttgc	1920
ctttattaca	tgtacatttt	gaattctgtg	accagtgatt	tgggttttat	tttgtatttg	1980
cagggtttgt	cattaataat	taatgcccct	ctcttacaga	acactcctat	ttgtacctca	2040
acaaatgcaa	attttcccgc	tttgccctac	gccccttttg	gtacacctag	aggttgattt	2100
cctttttcat	cgatgggtact	atttcttagt	gttttaaaat	ggaacatata	ttgcctcatg	2160
aagctttaaa	ttataatttt	cagtttctcc	ccatgaagcg	ctctcgtctg	acatttgttt	2220
ggaatcgtgc	cactgtgggt	ctgcgccaga	tgtaccgtcc	tttccaatac	gattttctgt	2280
tgcaccttgt	agtggattct	gcataatcat	tttcccacct	aaaaatgtct	gaatgcttac	2340
acaaataaat	tttataaac	gcttattttg	catactcctt	gaaatgtgac	tcttcagagg	2400
acagggtacc	gtgtgtgtat	gcgtgtgtac	tcgtggctgt	tcgtggctgt	gtgtgtgtga	2460
tgagacactt	tggaagactc	caggggagaag	ttcccagggc	tggagctgcc	gagtgccccg	2520

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<210> 46

<211> 3786

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2299715

<400> 46

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<211> 1182

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 209854

<400> 47

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<210> 48

<211> 1676

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1384286

<400> 48

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<210> 49

<211> 1597

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 1512656

<400> 49

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<211> 2145

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2098635

<400> 50

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<210> 51

<211> 1454

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 2446646

<400> 51

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<210> 52

<211> 3225

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2764911

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